

MARKET INFO

User Manual

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ABOUT THIS USER MANUAL

This user manual covers the complete information that you will need to operate MarketInfo. It also briefly describes the basic technical analysis calculation for your reference.

About This
User Manual

This user manual is divided into the following chapters:

- **Chapter 1: Welcome and Introduction**
gives some background information on the MarketInfo terminologies and environment.
- **Chapter 2: Data Communication Modules**
describes the communication modules that MarketInfo uses to receive the datafeed.
- **Chapter 3: Getting Started**
will familiarize you with basic operation in MarketInfo.
- **Chapter 4: The MarketInfo Supporting Menu**
provides general description of MarketInfo supporting menu.
- **Chapter 5: MarketInfo Viewers**
takes you on a step by step tour of all MarketInfo viewers.
- **Chapter 6: MarketInfo Alert Parameter**
describes how to use alert parameter.
- **Chapter 7: Market Indicators and Technical Analysis Tools**
will briefly describes the basic technical analysis calculation.
- **Chapter 8: How to Get Help**
shows you how to operate the concise yet clear MarketInfo online help.

Convention Used in This User Manual

The following table lists typographic convention used throughout this user manual:

Convention	Description
bold	Menus and menu commands, command buttons, StockWatch features.
<keys>	Keys on keyboard are written in brackets.
<i>italics</i>	Chapter and appendix titles.
Initial Capitals	Names of application and window.

CHAPTER 1: WELCOME AND INTRODUCTION

WELCOME

Welcome and thank you for choosing MarketInfo, the software that provides real-time information on the domestic markets and other important financial information around the region. Designed with ease of usage and accuracy in mind, you can rest assured that you will receive data on real-time mode, and on an user-friendly format. MarketInfo also provides a number of technical analysis tools to help you make more intelligent decisions.

SYSTEM REQUIREMENTS

The recommended requirements for a PC to be able to run MarketInfo are:

- Intel Pentium IV Processor.
- Minimum 128 MB of RAM.
- 2 GB of free hard disk space.
- Running Microsoft Windows 98, or Windows NT 4.0 (Service Pack 6A), 2000, XP.
- Internet Explorer 5 or later.
- A CD ROM drive for installation.

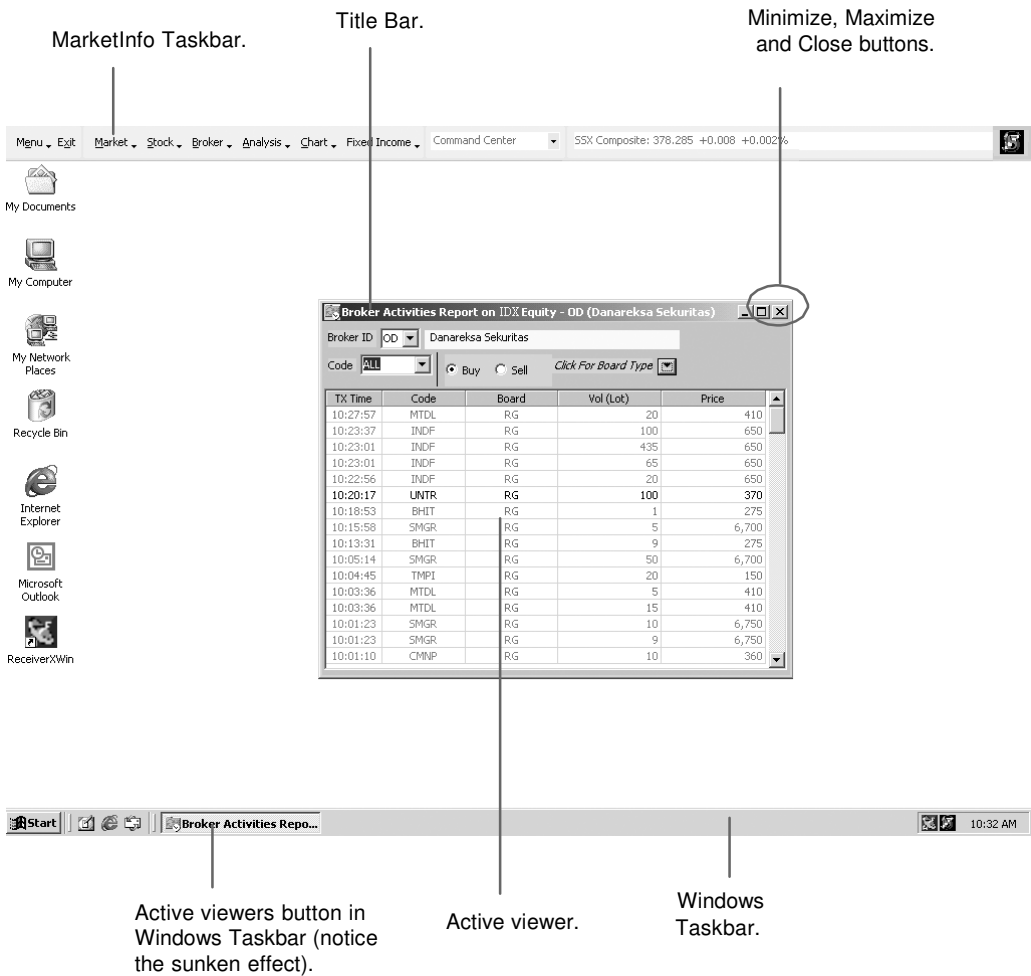
OPERATING ENVIRONMENT

MarketInfo is designed for the Windows environment. Thus, it is necessary to have prior knowledge of operating Windows. The comprehensive instructions of operating Windows is not covered in this User Manual, but you should be able to find it in the Windows User Guide that comes with your computer. However, in this chapter, there will be brief discussion on Windows terminology (corresponding with MarketInfo terminology), that should be useful.

MarketInfo ELEMENTS

Following is a brief explanation about MarketInfo terminology. It is important that you understand this terminology thoroughly before you continue reading this User Manual. If you are already familiar with Windows terminology, you can understand this section easily.

Welcome and Introduction



MarketInfo Taskbar

The MarketInfo Taskbar is the main element of MarketInfo. This taskbar will be launched everytime you start MarketInfo, and is used to open viewers and execute all MarketInfo features. *Chapter 3: Getting Started* will discuss the MarketInfo Taskbar in detail.

Note Place your mouse pointer on top of an icon, in a few seconds, a text describing its function will show up.

Viewer

In MarketInfo, almost all information and technical analysis charts are displayed on a viewer. In Windows terminology, a viewer is identical with window, in a sense that they both have identical properties.

How to Open a Viewer

In MarketInfo, there are four ways to open a viewer:

1. Drop-down menu on the MarketInfo Taskbar.

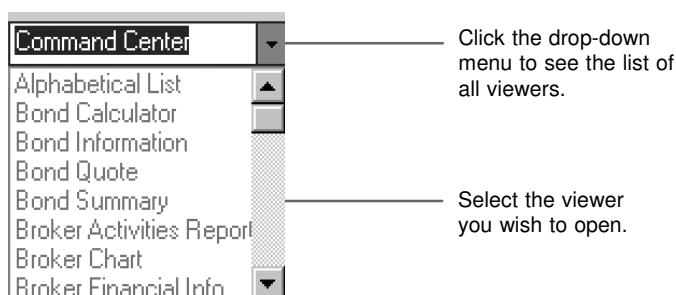
Click your mouse on the text label, a drop-down menu will appear and you will see the list of viewers available under that category. For the summary of viewer categorization, please refer to *Appendix A* of this User Manual.

To open a viewer, just click your mouse on the text label then select the viewer you want to open.



2. Drop-down menu on the Command Center.

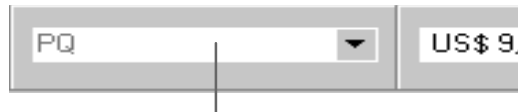
Click the drop-down menu and select the viewer you want to open. Please note that in the **Command Center**, viewers are listed in alphabetical order.



3. MarketInfo keywords in the Command Center.

Type the MarketInfo keyword in the **Command Center**. See the Appendix for a complete list of MarketInfo keyword.

You can also open the viewer using a keyboard combination configured as a shortcut. See chapter four for a complete list of default configuration of shortcut keys and how to add your keystrokes as a shortcut.



Type the MarketInfo keyword here and press <Enter>.

4. Pressing the Function keys.

You can open a viewer by pressing a Function key from keyboard. The function keys are <F2 – F11>.

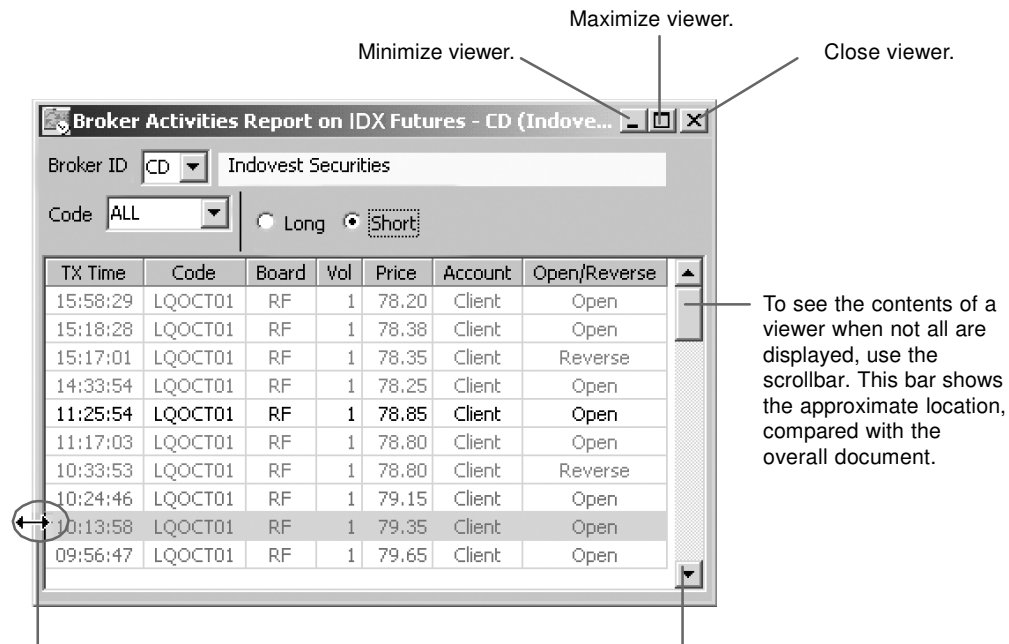
Active and Inactive Viewers

Although you can open several viewers at one time, there can only be one active viewer at a time. Since a viewer is identical with window, the above sentence can be rephrased as “there can be only one active window at a time”. The active window means that any operation you perform will be performed on that window (this is most apparent when you use the keyboard).

The active window can be spotted from its title bar, which is brighter than the other, and by its position, which is always on the top. To activate the inactive window, just click any area inside the window, or click the corresponding button on the Windows Taskbar.

Minimizing / Maximizing a Viewer

To avoid the clutter on your desktop, you can minimize a viewer. When you minimize a viewer, it will only be shown as a button in your Windows Taskbar. To return it to its initial state, just click the viewer button on the Windows Taskbar. You can also maximize a viewer, to make it fill the whole screen.



Move your mouse across the edge until it changes into a double-headed arrow. Press your left-mouse button, hold and drag it to resize.

Use this button to view the information on the lower part (use the upward button correspondingly).

Sometimes you need to scroll through a viewer to see the contents that are not displayed due to size restriction.

Note Not all viewers can be maximized and resized. Some viewers come with a fixed size. You can tell that a viewer cannot be maximized by looking at the maximize button. The button will be grayed-out if the function is not available.

How to Change Market in a Viewer

To change market in a viewer:

- Right click on the viewer title bar, a pop up menu will be shown.
- Select one of the available markets, such as IDX Equity, from the pop up menu. See the following picture for an example:

Running Trade on IDX Equity								
TX Time	Code	Last	Vol (Shr)	+	-			Buyer
11:59:59	INTP	1,450	8,500	50				GR
11:59:59	INTP	1,450	1,500	50				LS
11:59:58	GGRM	14,050	2,500	500				KC
11:59:55	BTEK	260	3,000	-15				SH
11:59:54	AUTO	1,300	4,000	25				CP
11:59:54	AUTO	1,300	9,000	25				CP
11:59:53	TLKM	7,350	18,500	150				BW
11:59:53	TLKM	7,350	5,000	150				BW
11:59:53	TLKM	7,350	1,500	150				BW
11:59:47	TLKM	7,400	47,000	200				HG
11:59:47	BNLI	35	200,000	0				SP
11:59:29	PTBA-W	180	1,000	5				MI
11:59:29	TLKM	7,350	23,500	150				ML
11:59:29	TLKM	7,350	26,500	150				ML
11:59:25	AUTO	1,300	1,000	25				IA
11:59:25	GGRM	14,050	5,000	500				BK
11:59:25	GGRM	14,050	3,500	500				ML
11:59:19	SUBA	120	500,000	-5				BQ
11:59:18	AUTO	1,300	1,000	25				IA
11:59:12	PTBA-W	180	1,000	5		2.86	D	MI
11:59:12	AUTO	1,300	500	25		1.96	D	IA

- Restore
- Move
- Size
- Minimize
- Maximize
- Close Alt+F4
- Running Mode
- Page Mode
- Print Content
- Print Form
- Resize Font
- Default Font
- IDX Equity
- IDX Options
- IDX Equity
- IDX Futures
- IDX IGS TS
- IDX FITS

MarketInfo Key Features

MarketInfo offers more useful features to assist you get exactly what you need. The features are discussed in brief as it has been described in other part of this User Manual in more details. Here is a list of MarketInfo features:

Multiple Viewers

This feature enables you to open several windows for the same viewer at once.

Sorting Column

You can specify what column to use for the basic of sorting, and the direction (ascending/ descending) of the sort.

Moving Column

You can customize the column order of a viewer.

Column AutoFit

This feature enables you to resize the column width so that it fits the content of the column automatically.

Changing Font Size

Allows you to change the size of font used in each viewer.

MarketInfo Key Features

Universal Masking

Universal Masking enables you to manage what column(s) to be displayed and hidden in certain viewers.

Linking Viewers

This feature allows you to directly call viewers from a viewer using **Universal Link** or from columns in a viewer using **Smart Link**.

MarketInfo Key Features

Changing Volume Unit

You can set the volume unit (Lot or Share) to be used in the whole MarketInfo Viewers.

Changing Background Color

Enables you to choose the global background color of viewers.

Price and Volume Alert

Alerts will be displayed when a user-defined limit is exceeded.

MarketInfo Key Features

Suspend and Release Alert

You will be notified when a company or broker is suspended or released.

Function Shortcut Keys

You can quickly accomplish tasks you perform frequently by using shortcut keys. For example you can retrieve linking viewer(s) by pressing <F12> on keyboard.

Saving Chart

You can save chart in Stock Chart viewer and load it again.

Multiple Viewers

MarketInfo viewers can be multiply opened, so you can open the same viewers at once. For example you can open two Order Books at the same time. To do this, open the viewer and then open again the second viewer to display.

Closing a Viewer

To close an active viewer, do one of the following:

1. Click the viewer icon and select **Close** from the menu.
2. Double-click the viewer icon.
3. Click the **X** button on the top right corner of the viewer.
4. Press **<CTRL+F4>** keys altogether.

To close all open viewers, click the **Desktop** menu and choose **Clear All**.

Desktop

The word desktop in Windows and MarketInfo terminology is almost identical. In Windows, the desktop is everything you see in your monitor, including the placing of icons, the background picture, etc. In MarketInfo terminology, desktop denotes the open viewers that you can see in your monitor (including the minimized viewers).

You can save your MarketInfo desktop, and open it again next time you start MarketInfo, thus saving you the time it takes to open the viewers one by one. Further discussions concerning desktop operations can be found in *Chapter 4: The MarketInfo Supporting Menu*.

TECHNICAL SUPPORT

If you still need assistance, you can
contact our Technical Support at:

PT. AmCapital Indonesia
Address : Wisma GKBI, 5th Floor, Suite 501
Jl. Jend.Sudirman No. 28, Jakarta 10210
Telephone Number : +62 21 5795 7000 (hunting 12 lines)
Fax Number : +62 21 57950698
URL : <http://www.amclicks.co.id>
Email : cs@amcapital.co.id

Before you contact us, make sure that you have your product serial number ready.
Our technical support personnel will need it to assist you better, by looking up the
installation record and your hardware specification in our database.

CHAPTER 2: DATA COMMUNICATION MODULES



This chapter will discuss the communication modules used by MarketInfo to ensure the flow of data from the receiver to the viewers requesting the data.

RECEIVER

The Receiver is a program that manages the flow of DataFeed from the receiver into the viewers. Most of the settings performed on this module concern the communication port of your computer, and the settings will be done by our Technical Support personnel.

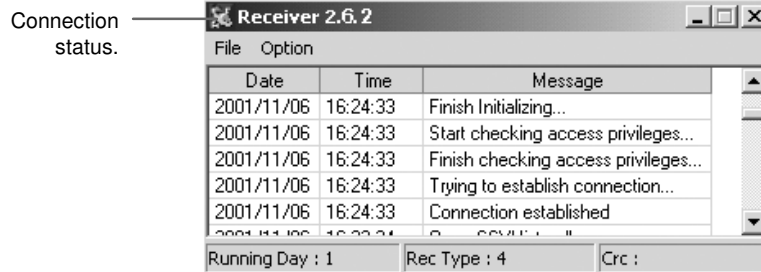
The Receiver

As stated above, the Receiver is a program that manages the flow of data from the receiver into the viewers. It is best if the settings are left to our technical support personnel, or handled by a person who has an adequate understanding of communication port settings.

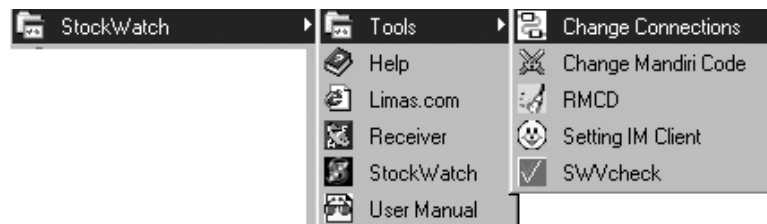
Connection Status

In order that you can easily know the connection status of the receiver, Receiver is equipped with three icon colors to identify the status, i.e.:

- Blue** : Connected and receives data.
- Yellow** : Connected but cannot receive data.
- Red** : Not connected.



To change your MarketInfo to MarketInfo Retail



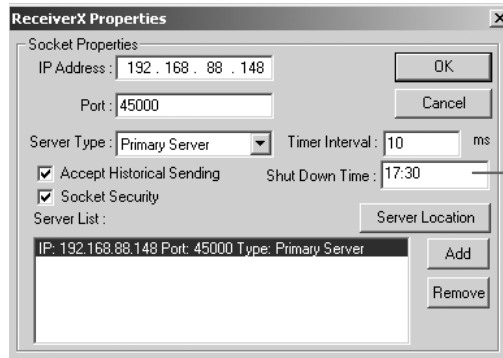
Click Change Connections icon to change your MarketInfo to MarketInfo Retail.
To use MarketInfo Retail, you must register your account with e-bursa.com

Communication Port

Communication port setting is the most important feature of the Receiver module. These settings enable your hardware to communicate with the data provider server. Click **Option** from Receiver window and select **Properties** to open this **Receiver Properties** window.

AutoExit Feature

This feature allows your computer to close MarketInfo automatically when the preset time is reached. To set this feature, please contact our Technical Support.



MarketInfo will be closed at this stated time.

Note The comprehensive discussion of communication terminology is beyond the scope of this book. Please contact AmCapital technical support if you have any questions regarding the communication properties.

CHAPTER 3:

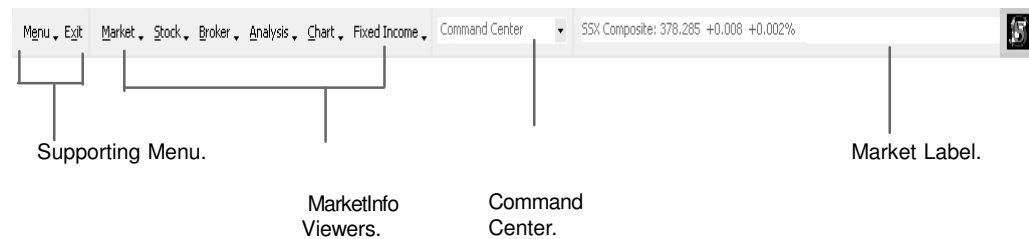
GETTING STARTED



In order to make you familiar with MarketInfo, an overview of MarketInfo features such as MarketInfo taskbar and viewers will be explained in this chapter. It also explains specific features which are applicable to the MarketInfo viewers such as Universal Masking, working with columns.

MarketInfo TASKBAR

When you run MarketInfo, you will see a taskbar displayed on top of your screen. The taskbar is a collection of buttons that houses all the MarketInfo functions.



MarketInfo TASKBAR CATEGORIZATION

Based on the functions, the taskbar can be categorized into:

1. Supporting Menu

In this section, you can find all standard customizing functions. Also included in this section is the **Exit** button. Detailed information on the Supporting Menu can be found in *Chapter 4: MarketInfo Supporting Menu*.

2. MarketInfo Viewers

This section is a place where users can invoke viewers. Detailed information on viewers can be found in *Chapter 5: MarketInfo Viewers*.

3. Command Center

Command Center is an alternative way to open a viewer. There are two ways to open a viewer using **Command Center**, which are: using drop-down menu and typing MarketInfo keyword.

4. Market Label

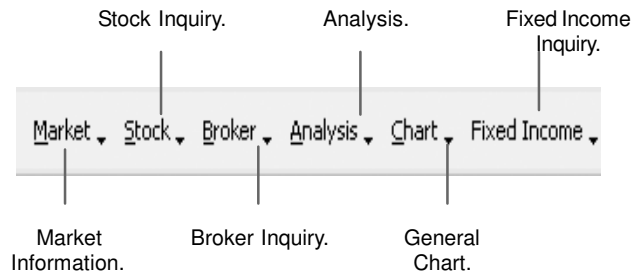
Market Label displays the IDX composite indices and the changes in real-time mode. It also displays current USD vs IDR rate.

VIEWER CATEGORIZATION

MarketInfo displays information from the Indonesia Stock Exchange using viewers and market label. Each viewer is designed to display specific information and will be discussed in detail in *Chapter5 : MarketInfo Viewers* of this manual.

The complete information on viewers is also available in the MarketInfo Help in a condensed format. To find out about using MarketInfo Help, you can open *Chapter 8: How to Get Help*.

The MarketInfo viewers are divided into six categories based on the information contained.



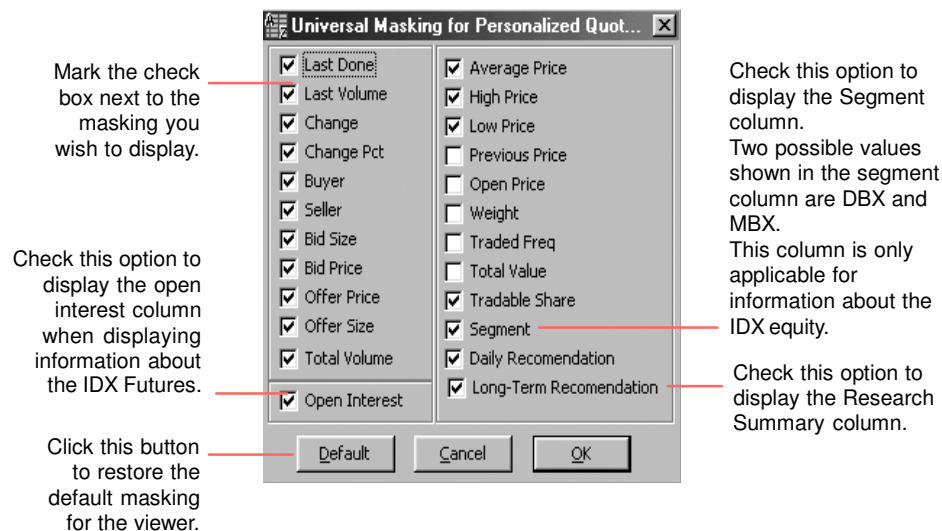
- **Market Information:** displays information on the overall Indonesia Stock Exchange market conditions. In addition, under the Market Information menu you can find the News, Currency Quote and Major Indices viewers.
- **Stock Inquiry:** displays comprehensive information on an individual or a group of securities. You can also view the buy-and-sell position and the running trade.
- **Broker Inquiry:** displays comprehensive information on broker's activities at the Indonesia Stock Exchange.
- **Analysis:** enables you to analyze securities and broker's transactions from a completely different perspective. It also provides a tool to measure warrant's price performance and a research summary on securities.
- **General Chart:** displays general and comprehensive information of the overall IDX market, such as stock and broker information, which is drawn as chart.
- **Fixed Income Inquiry:** displays general and comprehensive information of fixed income trading activity at the Indonesia Stock Exchange.

UNIVERSAL MASKING

Universal Masking is a standard masking/columns that is applicable to be added to certain viewers. With this menu, you can control the information to be displayed on a particular viewer. To display this menu, right click inside the viewer, then select **Universal Masking**, the menu box containing the list of available maskings will pop up. Mark the check box next to the masking you wish to display. Remove the mark from the related check box, to hide the masking.

Viewers provided with this capability are:

- Index Mover
- Member Capitalization
- Personalized Quotation
- Alphabetical List
- Most Active Stock
- Top Gainers/Losers
- Broker X-nalyzer



WORKING WITH COLUMN

MarketInfo allows you to reorganize columns available in a viewer tables.

Moving a Column

To move a column:

1. Point your mouse any area inside the column heading.
2. Click and hold down the mouse button until you see a small rectangle below the mouse pointer.
3. Drag your mouse to the target area where the column will be placed.
4. Release the button.

Below is a list of viewers that applicable for moving columns along with the unmovable columns.

Viewer Name	Unmovable Column
Alphabetical List	No.
Broker Activities Report	TX Time
Broker Trade Summary	Code
Broker X-nalyzer	Code
Buy/Sell Queue	Price
Corporate Action	
Detailed Quote	
Detail TX List	TX Time, Buyer, Seller
Index Mover	Code
Major Indices	Exchange
Member Capitalization	Code, No.
Most Active Broker	No., ID
Most Active Stock	Code, No.
Non Regular TX List	TX Time
Order Book	Time
Personalized Quotation	Code, Board, Exchange
Research Summary	ID
Running Trade	
Share X-nalyzer	Broker
Stock Status	
Top Gainers/Losers	Code
Trade Matrix	Price

Getting
Started

Resizing Column Width

To resize column width:

1. Place your mouse on the heading border of the column until you see a double-headed arrow.
2. Press and hold your mouse left button.
3. Drag your mouse to the desired width.
4. Release the button.

Column Auto-fit

To set column auto-fit:

1. Place your pointer on the right boundary of the column heading until it turns to be a double-headed arrow.
2. Double-click the left button.

Sorting Column

Sorting feature enables you to sort the content values both ascending (A-Z / 0-9) and descending (Z-A / 9-0). Viewer contents will be based on the contents of one column you specified.

To sort the contents of the viewer:

1. Click a column heading which the sorting will be based on. A sunken gray up arrow symbol will be displayed and the font color of the leading column becomes blue.
2. Click again to sort descending, a sunken gray down arrow symbol will be displayed on the column.

Viewers with Sorting Capabilities

Viewers, which are applicable for sorting control, are:

- Index Mover
- Major Indices
- Alphabetical List
- Top Gainers/Losers
- Trade Matrix
- Corporate Action
- Broker Trade Summary
- Broker X-nalyzer
- Research Summary
- Bond Quote
- Member Capitalization
- Personalized Quotation
- Most Active Stock
- Running Trade
- Relative Performance
- Most Active Broker
- Broker Financial Summary
- Share X-nalyzer
- Bond Summary

COPYING DATA TO OTHER APPLICATION

To copy data from MarketInfo viewer into other application such as *Microsoft Excel, Word*, etc.:

1. Right-click any area inside the viewer.
2. Select **Copy All** (or press <CTRL+A> keys).
3. Open the program to which the data will be copied.
4. Right-click and select **Paste** (or press <CTRL+V> keys).

FONT COLOR

This feature provides you an easy way to differentiate price movement, domestic and foreign broker and updated information.

Price Movement

- **Green** shows current price is higher than previous price.
- **Red** shows current price is lower than previous price.
- **Black** shows current price is the same as previous price. If the background color is black, the font color will be **white**.
- **Blue** (blinking) shows that the record is currently being updated.

Foreign and Domestic Broker

Foreign and domestic brokers are also differentiated by their font color, which are, **blue** for domestic broker and **brownish** for foreign broker.

Board Color

To make you easy in differing regular and non-regular boards, two background colors are used, **white** for regular board and **yellow** for non-regular boards.

CHAPTER 4:

MarketInfo SUPPORTING MENU



MarketInfo SUPPORTING MENU

The Supporting Menu hosts all standard functions. To access all functions within this menu, click the Menu button. A drop-down menu will appear listing all of the available functions.



- The **Desktop** button is used for managing the display of your computer screen.
- You can use the **Print** button to print an active viewer.
- The **Alert Parameter** button is to configure parameters used for monitoring stocks movement. (See chapter six for details).
- The **Configuration** button enables you to configure your MarketInfo settings.
- The **User Information** displays your current subscription type.
- The **Viewer and Desktop Hotkey Configuration** allows you to configure the function keys and other keys on your keyboard to be used with MarketInfo.
- **Link Configuration** can be used to link a viewer with other viewers.
- In addition, from this menu you can use the **Help** button to access the On-line Help documentation.
- The **Exit** button will close the MarketInfo program.

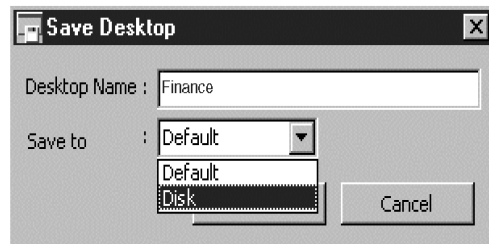
Desktop Desktop

Desktop is a collection of all viewers opened by the user at the same time. For easier understanding, consider open viewers as pieces of papers laid out on your table. Using that analogy, desktop can be described as the arrangement of those papers on your desk. The following will explain all desktop operations available under the **Desktop** menu.

Saving a Desktop Save Desktop

You can create several desktops according to your needs, and store them under separate names on your computer **or** on your floppy disk.

If you store the desktops on your floppy disk, then you can load them on other computers which have a MarketInfo application installed.



**MarketInfo
User Interface**

To save a desktop:

1. Open and arrange the viewers in your desktop so that all viewers can be seen.
2. Click the **Menu** from the MarketInfo Taskbar.
3. Select **Desktop** from the drop-down menu.
4. Click **Save Desktop**. The **Save Desktop** window will appear.
5. Create a name for your desktop by typing it in the **Desktop Name** field.
6. Select the location of the saved desktop on the **Save to** field.
Default means the desktop will be saved on your computer, whereas
Disk means the desktop will be saved on your floppy disk.
7. Click the **Save** button to save it.

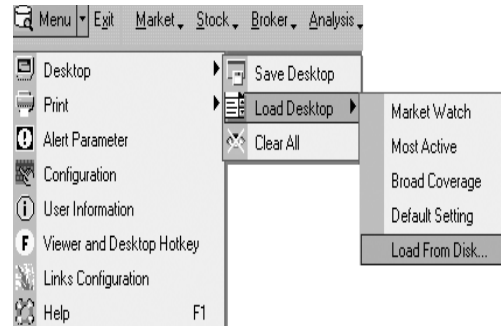
Loading a Desktop Load Desktop

This menu enables you to load your saved desktop or a default desktop provided by MarketInfo.

To load a desktop:

1. Click the **Menu** from the MarketInfo Taskbar.
2. Select **Desktop** from the pop-up window.
3. Place your mouse on **Load Desktop**.

4. The list of desktop names will appear, including the default desktops.
(See the Default Desktop section in this page for the list of viewers set as the default desktops).
5. Click the desktop you want to open.
6. To load a desktop from a floppy disk, click **Load From Disk**.



Default Desktop

MarketInfo provides three preset desktops that you can use immediately. Following are those three default desktops and the list of viewers in those desktops.

- **Broad Coverage:** News, Market Summary, Index Mover, Personalized Quotation, Most Active Stock, Top Gainers/Losers, Detail TX List, Running Trade, Order Book, Trade Summary Matrix, Buy/Sell Queue, Most Active Broker, Broker Trade Summary, Share X-nalyzer and Stock Chart.
- **Most Active:** Most Active Stock, Detail TX List and Buy/Sell Queue.
- **Market Watch:** News, Index Mover, Market Summary and Running Trade.

The Clear All Button



The Clear All button allows you to close all MarketInfo viewers currently opened.

To close all open viewers:

1. Click **Menu** from the MarketInfo taskbar.
2. Select **Desktop** from the drop down menu.
3. Click **Clear All**.

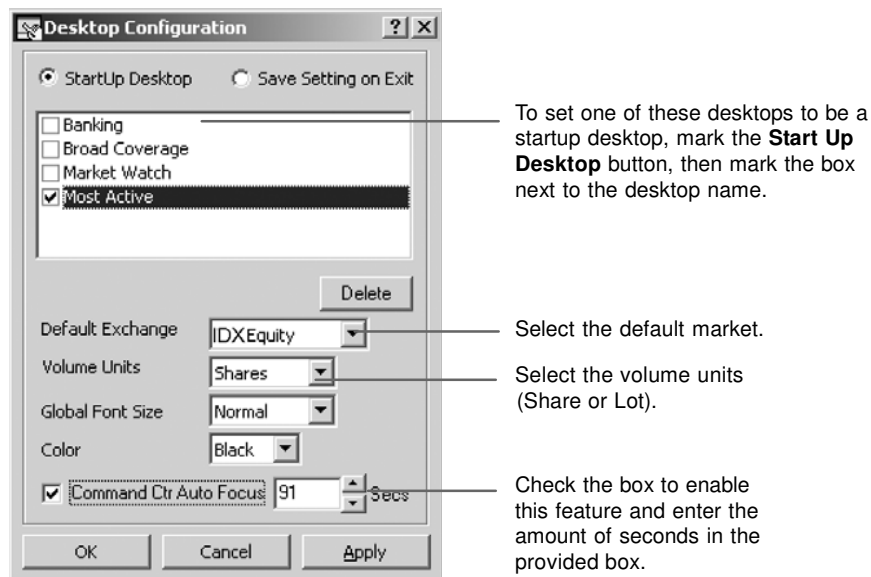
Configuration

Configuration

The **Configuration** enables you to configure your MarketInfo application. Using this configuration window you can do the following:

- Creating a Startup Desktop.
- Enabling/disabling the Save Setting on Exit.
- Deleting a desktop.
- Changing the default exchange.
- Changing the default volume unit (Lot or Shares).
- Changing the default global font size.
- Changing the default background color of viewers.
- Changing the Command Control Auto Focus setting.

MarketInfo
User Interface



All available options in the Desktop Configuration window will be explained in the following section.

Creating a Startup Desktop

You can also create a **Startup Desktop**, which is a desktop loaded automatically everytime you start MarketInfo.

1. Click on Menu the from the MarketInfo taskbar.
2. Select Configuration from the pop-up menu. The **Desktop Configuration** window will appear.
3. Click on the **Startup Desktop** option button from the **Desktop Configuration** window.
4. Select the name of the desktop you want to use as a startup desktop, by marking the box next to it.
5. Or, to have whatever desktop you use before closing MarketInfo as your startup desktop, select **Save Setting on Exit**.

Deleting a Desktop

1. Open the **Desktop Configuration** window as described in the previous section.
2. You will see a list of all desktops.
3. Mark the box next to the name of desktop name(s) you want to delete.
4. Click the **Delete** button.

Changing Default Exchange

This feature means that each viewer you open will display information on the chosen exchange. There are options available for assigning default exchange, i.e.: **IDX Equity**, **IDX Stock Options** and **IDX Futures**.

To set up default exchange:

Open the **Desktop Configuration** window. In the **Default Exchange** section, click the down-arrow and select **IDX Equity**, **IDX Stock Options** or **IDX Futures** from the drop-down menu and click **OK**.

Changing Volume Unit

You can change the unit used to display a volume data in the viewers. The available units that can be used are **Lot** and **Share**. To change the volume unit, open the **Desktop Configuration** window from the MarketInfo supporting menu. Use the drop-down menu to select the required volume unit and click **OK**.

Changing the default global font size

MarketInfo provides you with the ability to choose your preferred font size to be displayed in viewers: **Small**, **Normal**, **Medium**, **Large** and **Extra Large**. The smallest font size is 8 pt. and the largest is 14 pt.

There are two ways to resize fonts:

- Setting font globally: this setting will be displayed in all viewers.
- Setting font individually, this setting will be displayed only in the currently active viewer.

Setting Font Globally

To set font size in all viewers:

- 1 Open **Desktop Configuration**.
- 2 In the **Global Font Size** section, click the down-arrow and select the size you prefer.

Setting Font in a Viewer

To set font size in individual viewer:

- 1 Right-click the title bar of the viewer.
- 2 Select **Resize Font** from the menu.
- 3 Repeat number 2 until you get the preferred size.

Note Selecting Default Font will set the font to small size.

Changing the Background Color

This feature allows you to determine the background color in all viewers as you prefer. Two color options are provided, which are **black** and **white**.

To change the background color:

- 1 Open **Desktop Configuration**.
2. From the **Color** option, choose either **Black** or **White** from the drop-down menu.

Note Background color is not applicable in Non Regular Transaction List viewer whose background color is yellow.

Command Center Auto Focus

One of the shortcut keys available in MarketInfo is <Esc> key whose function is to move your cursor instantly to Command Center. With this **Auto Focus** feature, you can set the amount of time elapsed before the cursor is moved to the Command Center automatically.

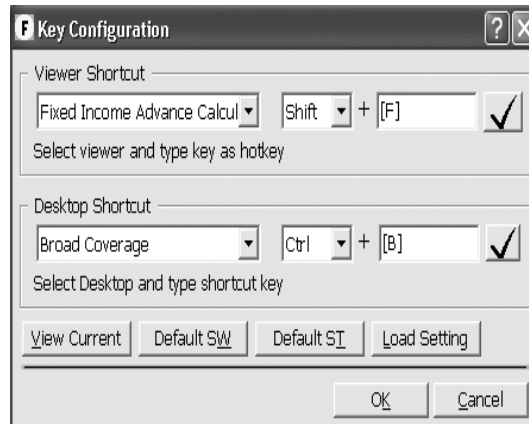
User Information User Information

When you wonder which information is accessible for you, you can open the **User Information** window. Select **User Information** from the **Desktop** menu, a window displaying all information that you can access will be displayed. Underneath, you can also find the expiration date of your subscription.

Using and Configuring Hot Keys Viewer and Desktop Hotkey

Using your standard PC keyboard, you may use keyboard rather than mouse as an alternative way to call a viewer or saved desktop.

With this feature, you can quickly retrieve frequently-opened viewers and saved desktops by using shortcut keys. The following is Key configuration viewer.



By using this viewer:

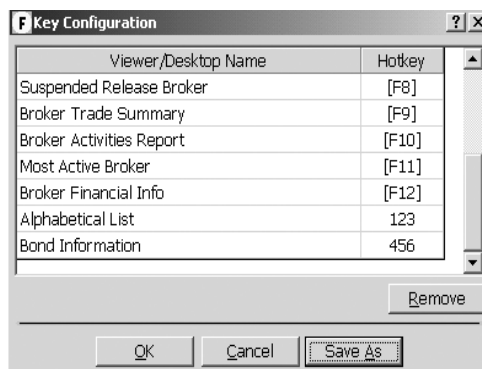
- You can configure a button on your keyboard or type in a keyword (hotkey) to open a viewer or saved desktop configuration.
 - You can save that hotkey configuration to a floppy/ hard disk for distribution.
- The button can be the F key or the other key. The keyword can be any combination of alphabetical and numeric keys on your keyboard. You can configure all function keys except for the preserved ones, which are <F1>, <F12> and <Esc>.

To assign a key to a viewer or saved desktop configuration:

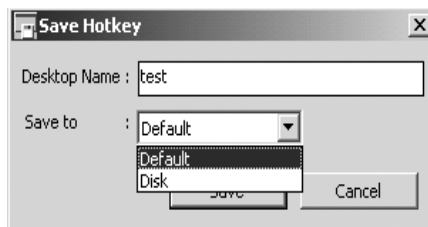
1. Open the Key Configuration window from the desktop menu.
2. Select the viewer or desktop to configure from the viewer or desktop shortcut drop-down menu.
3. Click on the text box located next to the drop down menu and press a button on your keyboard or type the keyword on the provided text box.
4. Click on the check mark button to save the configuration. If the keyword or button is already in use you will be notified.

To save your hotkeys configuration to a floppy/hard disk:

1. Click on View Current button.
2. The following current hotkeys viewer will be displayed.



3. You will see all hotkeys which have been assigned to viewers here.
4. Click on Save as to save the displayed hotkeys configuration.
5. The following is the Save Hotkey viewer.

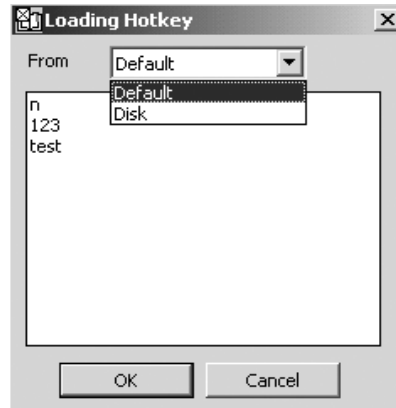


6. To save to a floppy disk, input your hotkey configuration name on Desktop name input box, choose Disk on Save to drop-down menu and click the Save button.

You can also remove a current configuration by clicking the Remove button.

To load a hotkey configuration:

- Open the Key Configuration window from the desktop menu.
- Click on Load Setting.
- The following is the Loading Hotkey viewer.



- To load from a floppy disk, choose Disk on From to drop-down menu and select a hotkey configuration name from the list by clicking on it and click the Ok button.

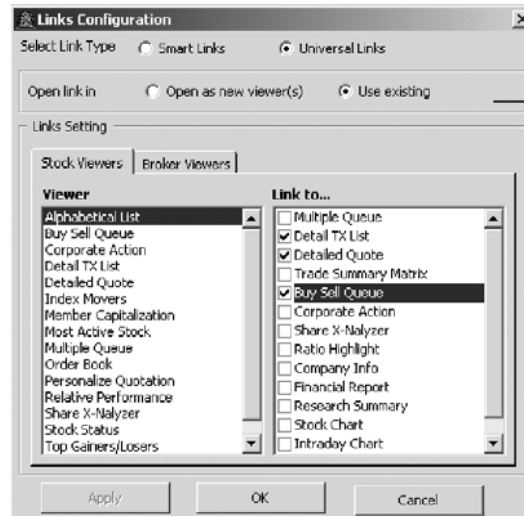
The following are default function keys provided by MarketInfo.

Function Key	Default Operation
<F1>	Displays Online Help.
<F12>	Calls linked viewer from one viewer to the other(s).
<Esc>	Moves cursor to Command Center.

Function Key	Preset Viewer to Retrieve
<F2>	Detail Transaction List.
<F3>	Personalized Quotation.
<F4>	Buy/Sell Queue.
<F5>	News.
<F6>	Running Trade.
<F7>	Top Gainers/Losers.
<F8>	Most Active Stock.
<F9>	Most Active Broker.
<F10>	Market Summary.
<F11>	Detailed Quote.

Links Configuration Links Configuration

Links Configuration is a time-saving feature that enables you to link several viewers in one action only. It enables you to call viewers from another viewer or from columns available in a viewer. With this feature, you can have a collection of viewers displaying information on a single stock/ broker.



The linked viewer can display information in a new viewer or updating the existing one.

MarketInfo
User Interface

Flexibility of linking is provided for you with these features:

1. Calling viewer(s) from a viewer using the **Universal Link** option.
2. Calling viewer(s) based on a column name of a viewer using the **Smart Link** option.

Both link types cannot be called concurrently for a certain viewer, only one link type can be called at a time within a viewer.

Universal Link

Universal Link is an inter-viewer linking. This option is divided into two links: Stock viewers and broker viewers.

To configure the Links Configuration:

1. Do one of the following:
 - a. Click desktop menu and select **Links Configuration**. Choose **Universal Link** button.
 - b. Right-click within the viewer and select **Universal Links**.

2. The Universal Link dialog box is displayed.
3. Under **Links Setting** section, click either **Stock Viewers** tab or **Broker Viewers** tab.
4. In the **Link to..** section, check the box next to the viewer(s) to be assigned as the link target.
5. Click **Apply** button.

Smart Link

Smart Link can assign columns to call viewers available in MarketInfo, i.e. when you double-click particular column, the (chosen) linked viewer will be displayed automatically. All viewers containing these columns are provided with this Smart Link feature.

To activate the **Smart Link**:

1. Open the **Link Configuration** dialog box.
2. Choose **Smart Links** button.
3. In the **Link Setting** section, click one of the column category tab.
4. On the left pane, select the column to assign.
5. On the right pane, check the box of the viewer name to which the column will be assigned.
6. Click **Apply** button.

Calling Smart Link or Universal Link from a viewer

1. To call the Smart Link, double click on the column name **or** position your mouse on the column heading, click on it and press **<F12>** key from the keyboard.
2. To call the Universal Link, double click on the content of a viewer **or** position your mouse on the content of a viewer, click on it and press **<F12>** key from the keyboard.

Below is the list of viewers with their preset links. These links are customizable meaning that you can change the target viewers.

Viewer	Preset Link
Index Movers	Detail TX List, Detailed Quote
Member Capitalization	Detailed Quote
Personalized Quotation	Detail TX List, Detailed Quote, Buy/Sell Queue
Alphabetical List	Detail TX List, Detailed Quote, Buy/Sell Queue
Most Active Stocks	Detail TX List, Detailed Quote, Buy/Sell Queue
Top Gainers/Losers	Detailed Quote, Buy/Sell Queue, Intraday Chart
Multiple Queue	Order Book
Order Book	Detail TX List, Intraday Chart
Detail TX List	Trade Summary Matrix
Detailed Quote	Trade Summary Matrix, Share X-nalyzer
Stock Status	Share X-nalyzer, Research Summary
Trade Summary Matrix	Detail TX List, Share X-nalyzer
Buy/Sell Queue	Order Book
Relative Performance	Detailed Quote, Stock Chart
Corporate Action	Detailed Quote, Company Info, Stock Chart
Share X-nalyzer	Detail TX List, Share X-nalyzer
Broker X-nalyzer	Broker Trade Summary, Broker Chart
Most Active Broker	Broker Activities Report, Broker Trade Summary
Suspended/ Released Broker	Individual Broker, Broker Chart

**MarketInfo
User Interface**

Printing in MarketInfo Print

You can print the information from the viewer for better reading. Not only can you print all the tables, you can also print the charts.

Three Ways to access the Print menu in MarketInfo

1. Use the **Print** menu from the taskbar.
2. Directly from the viewer by right-clicking the title bar of the viewer and choosing the printing type.
3. Right-click on the minimized viewer's button on the Windows taskbar, then choose the printing type.

Printing Type

There are three printing options available in StockWatch, which are **Print Form**, **Print Content** and **Print Desktop**.

Print Form

Printing the snapshot of your viewer, including all the data currently displayed. Since this is a snapshot, you must be careful in resizing your viewer so that all the data you want to print is visible.

Print Content

This will print all the data in the viewer you want to print. MarketInfo will arrange the data display, adding the header, and do the page setting for you.

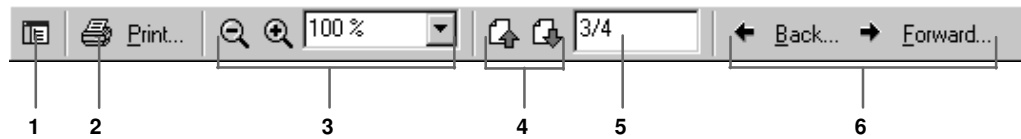
Print Desktop

This will print the snapshot of your desktop (showing all viewers opened, MarketInfo Taskbar, Windows Taskbar, and shortcut icons). This option is available only from the **Print** button in the MarketInfo Taskbar.

Print Preview

For every printing type you execute, MarketInfo will display an actual page of the print job in a print preview window. Here, you can do final checking before printing the document.

MarketInfo
User Interface



The buttons on the **Print Preview** toolbar are:

1. **Table of Contents**
Shows the table of contents of the document to be printed.
2. **Print**
Click this button to print the document.
3. **Zoom buttons**
You can zoom-in and zoom-out on a document by using the + or - buttons or by selecting the zoom level from the drop-down menu.
4. **Next Page and Previous Page** button
Click this button to view the next or previous page in the document.
5. **Position marker**
Shows you which page is currently on display, and total number of pages in that document.
6. **Back and Forward** button
The back and forward button takes you to the previous or next document page in browsing history. Please note the difference between these buttons and **Next Page/Previous Page** button.

CHAPTER 5:

MarketInfo VIEWERS



MARKET INFORMATION

The Market Information section contains general and comprehensive information on the overall Indonesia Stock Exchange market condition. Information on major indices and regional currencies are also provided in this section. News viewer is also housed here.

Viewers available under this category are:

1. Ticker
2. News
3. Market Summary
4. Index Movers
5. Indices
6. Member Capitalization
7. Currency Quote
8. Major Indices
9. TV Channels
10. Overseas Listed Stocks
11. Major Indices Futures
12. Option Info
13. Messages

MarketInfo
Viewers

Ticker



Information Contained

This movable ticker delivers timely information on news, domestic stocks (IDX) and other regional data. The data are provided in form of crawling text.

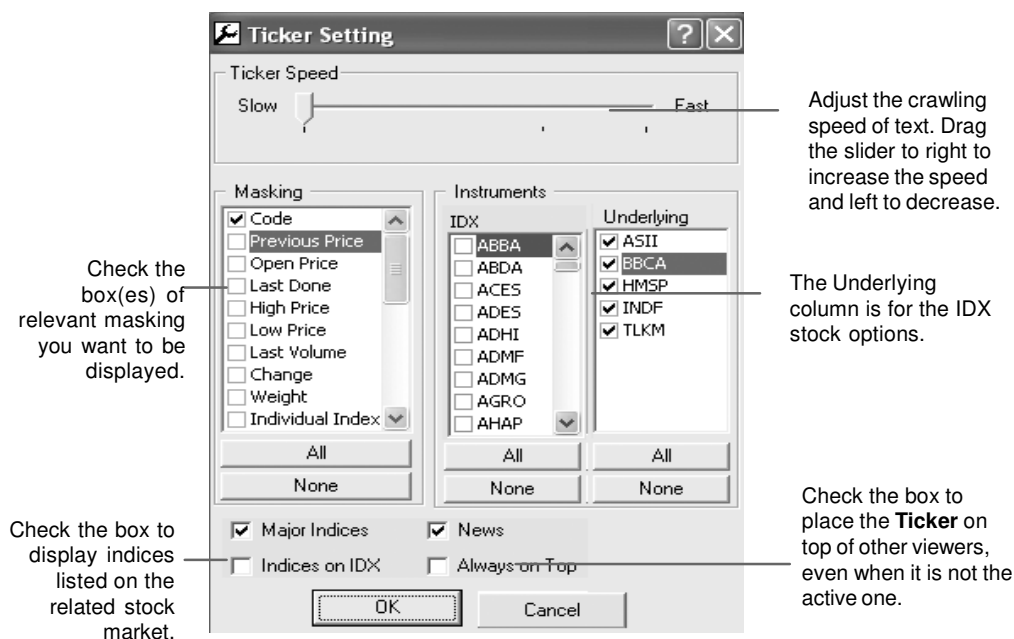
How to Operate

Open Market Information menu then choose Ticker. This viewer is movable so that you can reposition it to any place on the screen as you wish. To move the Ticker, click the caption bar, then drag it to any place.

Ticker Configuration

If you want only certain information you need to be displayed on Ticker, just right click the on the viewer title bar, then the configure settings window will be available.

**Market
Information**



News

Click on any available column heading to sort the news based on the clicked column heading.

Double-click to open the News content popup window.



No.	Time	Source	Title
745	16:09:10	AFX	Foreign investors buy net 22.55 mln TSMC shares today
744	16:08:34	STW	Bapepam: Bumi Resources, Pembangunan Graha Langgar Aturan Transaksi
743	16:08:01	DOW	DJ HK Shares End Slightly Higher; 5-Day Losing Streak Ends
742	16:07:29	AFX	Forex - Asia currency summary
741	16:06:52	DOW	DJ HK Closing Gold: US\$317.50-318.00/Oz; HK\$2948/Tael
740	16:06:27	AFX	*STRAITS TIMES INDEX CLOSES UP 2.81 PTS AT 1,600.60
739	16:05:40	DOW	DJ China Bonds End -2:Ctrl Bk May Be Trying To Guide Auction
738	16:04:00	DTK	Detikcom (Jakarta) Kasus Manulife Tak Akan Pengaruhi Hubungan RI-Kanada
737	16:02:00	DTK	Detikcom (Jakarta) Mobil Kijang Menabrak & Meledak, Pengemudi Tewas Ter
736	16:01:36	TMP	TEMPO interaktif - Roy BB Janis Sudah Ambil Formulir Calon Gubernur

Information Contained

This viewer displays news, announcements, and other text-based information contributed by Indonesia Stock Exchange, AFX-News, Dow Jones, Dow Jones, MarketInfo, Tempo News, Detik News, MarketInfo English News and Prospektif (denoted by the header IDX, AFX, DOW, DJL, STW, TMP and DTK in the news headline).

Note News sources that you can access depend on the features you subscribe.

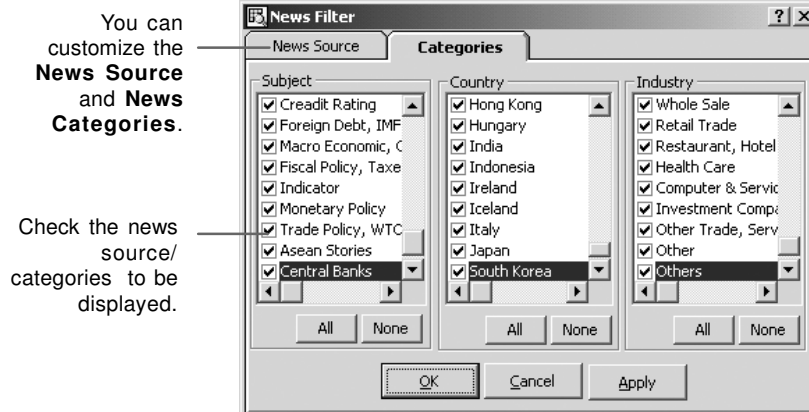
How to Operate

From **Market Information** menu, select News. This viewer displays the news headlines, source and released time. If you want to see the content, double click the headline, a new window displaying the contents will be displayed.

You can also sort the news content by clicking on any available column heading in the News viewer.

The font formats and colors used in this viewer are:

- Flash News, news without news detail, (indicated by the ‘*’ character in the title) will be shown using red font color.
- Unread items/stories are indicated by bold text.
- Read items are indicated by normal font.



News Filter

Without filtering menu, you will have to go through an extensive list of news to find certain news or messages. Filtering menu will reduce unnecessary news shown on the screen and saves your time as well. This filter has two tabs dividing the **News Sources** and **Categories**. To filter news, right-click on the **News** viewer, a pop up window will appear and choose **News Filter**.

**Market
Information**

News Source

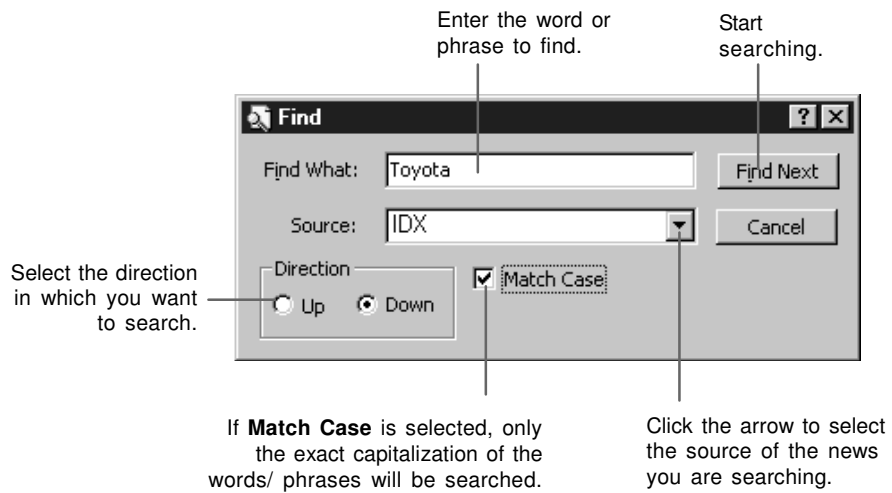
News Source consists several different sources, such as IDX News (IDX), AFX-News (AFX), Dow Jones News (DOW), MarketInfo News (STW), Tempo News (TMP), Detik News (DTK), MarketInfo English News and Prospektif.

News Categories

The news categories are divided into three categories, which are **Subject**, **Country** and **Industry**. Check the box next to category which you want to be displayed, otherwise clear the box. You should give at least one choice in each category.

Searching for News

MarketInfo allows you to search for news containing specific keyword. To find news, right-click on the **News** viewer, a pop up window will appear and choose **Find**. When the keyword is found, the viewer will point and highlight the matched text/word. Clicking the **Find Next** button will bring the focus to the next match found, either on previous news or next news, depending on the search direction (**Up** or **Down**) you select.



Market Summary

Click the + box to open details of the related board.

Toggle button, click to view/ hide details.

	Volume	Value (bn)	Freq
Regular Board	3,156,135,500	5,569.4399	57,856
Crossing Board	475,559,172	852.4102	401
Negotiated	41,830,667	9.8427	30
Cash Market	1,026,500	0.5132	9
Immediate	26,500	0.5132	9
OTC_FIS	0	0	0
Index Futures	5,667	20.8422	18
Rights Trading	41,130,417	20.9379	347
Warrants Trading	56,205,667	20.8422	718
Options Trading	0	0.0000	0
Total Market	3,770,861,423	6,473.4730	59,352
Foreign Buy	512,919,371	1,060.0454	5,373
Foreign Sell	358,653,871	1,745.3518	9,786
Foreign Net		-685.3064	

Market
Information

Information Contained

This viewer displays the current market summary of IDX, IDX Stock Option, IDX Futures. On this viewer, you can read the following information (please refer to the numbers on the picture above).

1. Composite Index

This section shows the current Composite Index and the difference (changes) value/percentage between the current and yesterday's Composite Index.

2. Advancers/Decliners/Unchanged

This section shows the number of stocks whose prices are advancing, declining or remain unchanged (as compared to previous day's closing price).

Each part of this section can display detail numbers. To display the information, click on the related part (**Advancer**, **Decliner** or **Unchanged**). A small window containing the detail information will popup.

3. Current Total Market Volume and Value and Transaction Frequency

This section shows summary of current total market volume (in million shares) total market value (in billion Rupiah) and total transaction frequency of all stocks.

4. Details for each Board

This section displays a breakdown of information on market volume, value and frequency (from section 3) for each board. For the regular board the background color is white and for the non regular the background color is yellow. Use the  sign to view the detailed transaction of each board and the  sign to hide it. Use the **toggle** button to view/hide this section downward.

5. Total Market, Options, Rights and Warrants Trading Volume, Value and Frequency

This section shows current total market, IDX Options, rights and warrants trading volume, value (in billion Rupiah) and frequency.

6. Foreign Buy, Foreign Sell and Foreign Net

This section shows the foreign broker's transaction, which is differentiated into total buy and sell volume, value (in billion Rupiah) and frequency, the net value is also displayed here.

Detail Transactions on Non-Regular Boards

Should you need more detail information on one of the non-regular boards, you can get it by double-clicking the board name. A window will popup displaying its detail transactions.

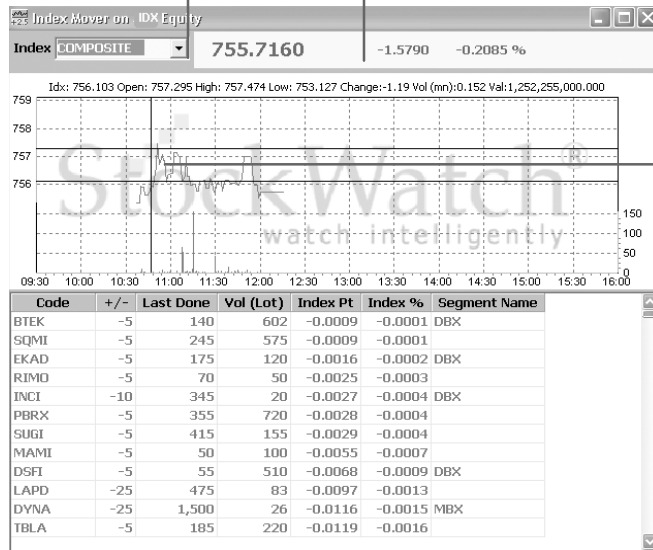


TX Time	Code	Price	Vol (Lot)	+/-	Buyer	Seller
15:50:47	BNBR	18	200	1	MG	KI
15:43:56	RMBA	250	10,000	20	KI	MG
15:43:47	BNBR	18	4,000	1	AT	DW
15:35:05	KLBF	375	1	40	IP	DX
15:30:22	BNBR	18	800	1	AT	BS
15:26:06	BNBR	18	1,500	1	MG	EP
15:18:59	BNBR	18	200	1	AT	MS

Index Mover

Select the index type.

Current index and its changes.



Real-time index movement chart. Place your mouse over the line to display the value.

Market Information

Information Contained

Index Mover displays the real-time IDX Composite Index movement chart and the complete list of individual stocks contributing to the index movement.

Stock Arrangement

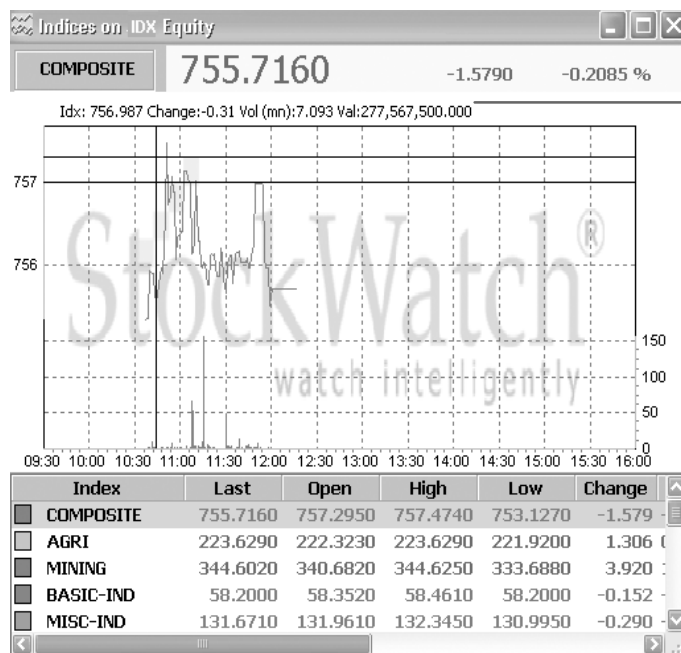
By default, the stocks are sorted based on the index movement direction. Those with the highest contribution to index movement are placed on top of the list. For example if the index is moving up, the stock which has the biggest contribution due to its price advancement will be placed on the top of the list, and vice versa.

Sorting Content

You can change the basic sorting so that it will be based on any of the column headings available. To change the basic sorting, click on a column heading.

Indices

MarketInfo
Viewers



Details of the
cursor position.

Information Contained

This viewer displays the real-time Index movement chart of the IDX, either the composite index or one of the categories available. On the label section, by default, Indices displays the Composite Index, its last change and the percentage of change, in accordance with the category selected.

- Index sectors on the IDX are: **Composite, Agriculture, Mining, Basic Industry, Miscellaneous Industry, Consumer Products, Property, Infrastructure, Finance, Trade, Manufacture, LQ45, Banking, MBX, DBX and JII, CSPI.**

How to Operate

By clicking a category name in the Index column, the index movement chart for that category will be shown on the chart section. Besides individual category, you can also choose **Composite** or **All** (all categories). To see the value of the line, place your mouse on the chart line, then the trading volume and trading value on that time will be displayed. Total trading volume is plotted below the index chart using histogram on minute basis.

Member Capitalization

Member Capitalization on IDX Equity							
Sector		COMPOSITE		Market Capitalization 202,598,931,779,406			
No	Code	Name	Mkt Cap	% to Sector	Buyer	Seller	Segment Name
1	TMPI	AGIS Tbk	117,450,534,600	0.0580	LH	IF	DBX
2	ABBA	Abdi Bangsa Tbk	172,800,000,000	0.0853			DBX
3	ADES	Ades Alfindo Tbk	55,100,000,000	0.0272			DBX
4	ADFO	Adindo Foresta Indonesia Tbk	37,277,181,900	0.0184			DBX
5	AIMS	Akbar Indo Makmur Stimec Tbk	23,650,000,000	0.0117			DBX
6	ALKA	Alakasa Industrindo Tbk	1,608,750,000	0.0008			DBX
7	ALFA	Alfa Retailindo Tbk	362,700,000,000	0.1790	QQ	XT	MBX
8	ALDI	Alter Abadi Tbk	3,982,600,000	0.0020			DBX
9	ALMI	Alumindo Light Metal Inds. Tbk	63,140,000,000	0.0312			DBX
10	ACAP	Andhi Chandra Automotive P Tbk	353,760,000,000	0.1746	DS	FX	DBX
11	AKRA	Aneka Kimia Raya Tbk	124,800,000,000	0.0616			DBX
12	ANTM	Aneka Tambang (Persero) Tbk	839,384,458,000	0.4143	DX	IP	MBX
13	ANTA	Anta Express Tour & Travel Se	48,450,000,000	0.0239			DBX
14	ATPK	Anugrah Tambak Perkasindo Tbk	30,783,750,000	0.0152			DBX

Information Contained

Member Capitalization enables you to view the capitalization in terms of value and percentage for every individual stock. Total value of market capitalization is also displayed on top right of the viewer.

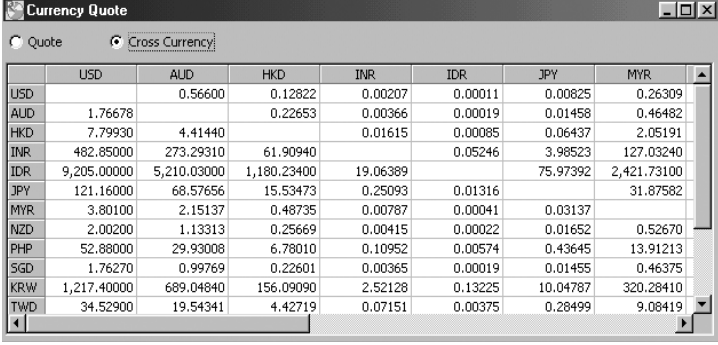
**Market
Information**

Selecting Sector

You can display either composite index or particular sector available in the selected market. To display information on a sector, in the **Sector** section click the down-arrow and select one of the sectors to display.

Note When you choose to display **Composite/CSPI**, the market capitalization value displayed is the total value of stocks, excluded rights and warrants.

Currency Quote



The screenshot shows a window titled "Currency Quote" with two tabs: "Quote" and "Cross Currency". The "Quote" tab is active, displaying a table of exchange rates. The table has columns for the base currency (USD) and various regional currencies (AUD, HKD, INR, IDR, JPY, MYR, NZD, PHP, SGD, KRW, TWD). The rows show the exchange rate for each regional currency against the US Dollar.

	USD	AUD	HKD	INR	IDR	JPY	MYR
USD		0.56600	0.12822	0.00207	0.00011	0.00825	0.26309
AUD	1.76678		0.22653	0.00366	0.00019	0.01458	0.46482
HKD	7.79930	4.41440		0.01615	0.00085	0.06437	2.05191
INR	482.85000	273.29310	61.90940		0.05246	3.98523	127.03240
IDR	9,205.00000	5,210.03000	1,180.23400	19.06389		75.97392	2,421.73100
JPY	121.16000	68.57656	15.53473	0.25093	0.01316		31.87582
MYR	3.80100	2.15137	0.48735	0.00787	0.00041	0.03137	
NZD	2.00200	1.13313	0.25669	0.00415	0.00022	0.01652	0.52670
PHP	52.88000	29.93008	6.78010	0.10952	0.00574	0.43645	13.91213
SGD	1.76270	0.99769	0.22601	0.00365	0.00019	0.01455	0.46375
KRW	1,217.40000	689.04840	156.09090	2.52128	0.13225	10.04787	320.28410
TWD	34.52900	19.54341	4.42719	0.07151	0.00375	0.28499	9.08419

Information Contained

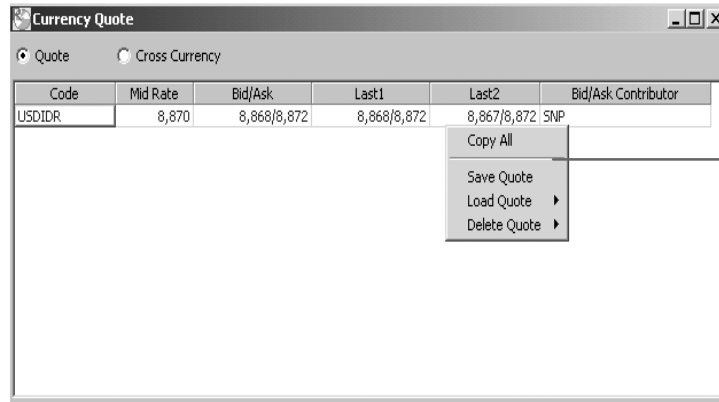
Currency Quote provides information on regional currencies plus the United States Dollar and other leading European currencies. You can obtain detail currency information such as the latest bid and offer for the currency and current value of the related currency.

With two options of display, you can choose either to display all currency rates or to display only those that you enter. The currencies covered in this viewer are :

Currency	Code
Australian Dollar	AUD
Hongkong Dollar	HKD
Indian Rupee	INR
Indonesian Rupiah	IDR
Japanese Yen	JPY
Malaysian Ringgit	MYR
New Zealand Dollar	NZD
Philippines Peso	PHP
Singapore Dollar	SGD
South Korean Won	KRW
Taiwan Dollar	TWD
Thai Baht	TBH
United States Dollar	USD

How to Operate

This viewer provides two buttons: **Cross Currency** and **Quote**. **Cross Currency** option displays all currencies available. With **Quote** option you can choose your favorite currencies to be displayed. If choose the **Quote** option, the following window will be displayed.



Right-click your mouse to open this window.

To enter a currency quote:

1. In the **Code** column, enter two currency codes. For example, to find the Indonesian Rupiah rate for 1 US Dollar, type in USDIDR.
2. Press **<Enter>** to display the currency quote information.

Last 1 and Last 2 Columns

The last 1 column displays the complete of last one Bid price and Ask price.
The last 2 column displays the complete of last two Bid price and Ask price.
For example, from the following price movements,

	Bid	Ask	Trade
Current	9075	9125	9100
Last 1	9100	9150	9125
Last 2	9125	9200	9150

the following information will be displayed.

Mid-Rate	Bid/Ask	Last 1	Last 2
9,100	9,075/9,125	9,100/9,150	9,125/9,200

**Market
Information**

Contributor Codes used by the viewer are:

1. SNP (Standard & poor)
2. Harlow (Harlow/Garban)
3. BBKA (Bank BCA)
4. BBIA (Bank Buana)

You can also save, load and delete quotations.

Saving Quotation

To save currently displayed quotation:

1. Right-click within the viewer.
2. Select **Save Quote** from the menu. The **Save** dialog box opens.
3. In the **Name** section, type the name for the quotation.
4. Click **OK**, or press **<Enter>**.

Loading Quotation

All quotations that you saved can be called again.

To load the previously-saved quotation:

1. Right-click within the viewer.
2. Select **Load** from the menu. A list of your quotations is displayed.
3. Choose the quotation name to open by clicking on it.
4. Click **OK**, or press **<Enter>**.

Deleting Quotation

With this feature, you can remove quotations that you saved.

To remove the quotation:

1. Right-click within the viewer.
2. Choose **Delete** from the menu. A list of your quotations is displayed.
3. Choose the quotation name to remove by clicking on it.
4. Click **OK**, or press **<Enter>**.

Major Indices

Major Indices			
Exchange	Index	+/-	+/-%
Tokyo Nikkei 225	10,962.900	-184.2998	-1.6533%
Paris CAC 40 index	4,538.310	-89.0200	-1.9238%
Frankfurt Dax Index	5,182.340	-83.0200	-1.5767%
Dow Jones Industrial Average	10,176.000	-73.0000	-0.7123%
Hang Seng Index	10,710.500	-34.4004	-0.3202%
Nasdaq Composite Index	1,725.240	-17.3300	-0.9945%
Nasdaq 100 Index	1,394.210	-16.2001	-1.1486%
FTSE 100 Index	5,164.400	-15.2002	-0.2935%
Australia All Ordinaries Index	3,307.700	-12.3001	-0.3705%
Manila Composite Index	1,405.340	-9.4401	-0.6672%
NYSE Composite Index	591.010	-5.3100	-0.8905%
NZSE40 Composite Index	2,060.040	-4.1899	-0.2030%
Kuala Lumpur Composite Index	776.210	+1.4500	+0.1872%
Singapore Straits Time	1,751.750	+11.1700	+0.6417%
Seoul Composite Index	875.690	+12.8300	+1.4869%
Taipei Weighted Index	6,182.500	+108.7998	+1.7913%

Information Contained

This viewer displays the latest values of major indices in Asia Pacific plus The United States indices.

The major Indices covered in this viewer are:

1. Australia All Ordinaries Index
2. Dow Jones Industrial Average
3. Frankfurt Dax Index
4. FTSE 100 Index
5. Hang Seng Index
6. Kuala Lumpur Composite Index
7. Manila Composite Index
8. Nasdaq 100 Index
9. Nasdaq Composite Index
10. NYSE Composite Index
11. NZSE40 Composite Index
12. Paris CAC 40 index
13. Seoul Composite Index
14. Singapore Straits Time
15. Taipei Weighted Index
16. Tokyo Nikkei 225

Note Some indices are not displayed on real time basis due to limitations from the providers. The delayed markets are:

Kuala Lumpur Composite Index	Manila Composite Index
NZSE40 Composite Index	Seoul Composite Index
Singapore Straits Time	Taipei Weighted Index
Tokyo Nikkei 225	

**Market
Information**

TV Channels

**MarketInfo
Viewers**



Click this to
close this
viewer.

Click this to
enable or
disable the
sound.

Use this to
adjust the
volume.

Information Contained

This viewer enables you to watch digital TV streaming from MarketInfo.

You can select it from the TV Channels menu. The provided TV channel is Metro TV.

Overseas Listed Stocks

Overseas Listed Stock							
Code	Name	Exchange	Date	Close	High	Low	IDR
IIT	Indosat Tbk	NYSE	16 Apr 2003	9.07	9.65	9.55	8,484.9600
TLK	Telekomunikasi Indonesia	NYSE	16 Apr 2003	9.4	9.6	9.35	4,242.4800

Information Contained

Using this viewer you can display all overseas listed stocks information, such as Indosat, Telkom stocks.

Close = The closing price in US Dollar on a given date.

High = The highest price in US Dollar on a given date.

Low = The lowest price in US Dollar on a given date.

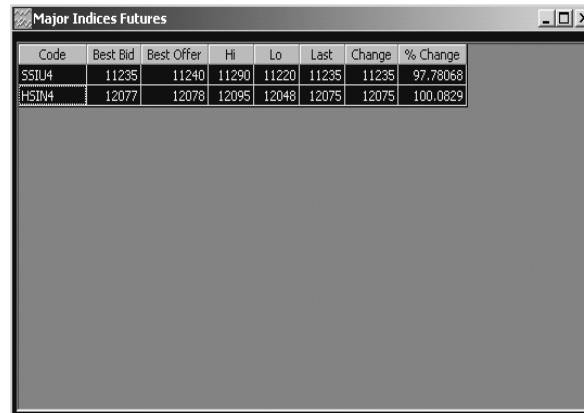
IDR= The conversion result of the closing price of a stock per share in Indonesian Rupiah.

Note : the conversion result will depend on the unit amount traded for a given stock.

For example for TLK (telkom), as 1 ADR of TLK = 20 stocks of TLK, therefore if the closing price of TLK = 7.6 then, $7.6 \times \text{Rp. } 8900$ (current rate of IDR on that day) = 67640. Next, the IDR value of TLK = $67640/20 = \text{Rp. } 3382$.

**Market
Information**

Major Indices Futures



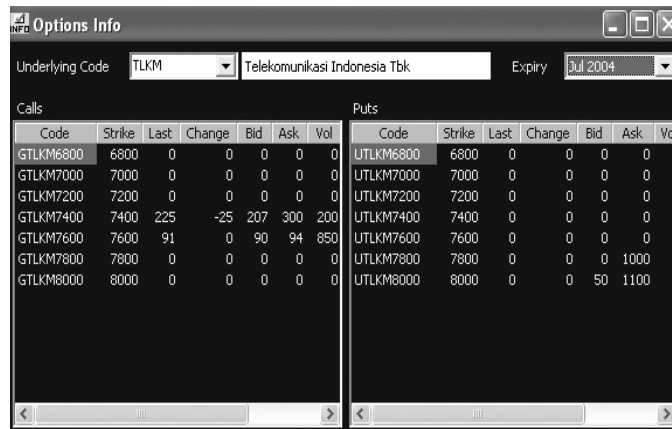
Code	Best Bid	Best Offer	Hi	Lo	Last	Change	% Change
SSIU4	11235	11240	11290	11220	11235	11235	97.78068
HSIU4	12077	12078	12095	12048	12075	12075	100.0829

Information Contained

This viewer enables you to obtain Major Indices Futures summary information from international stock exchanges.

MarketInfo
Viewers

Option Info



Calls							Puts						
Code	Strike	Last	Change	Bid	Ask	Vol	Code	Strike	Last	Change	Bid	Ask	Vol
GTLKM6800	6800	0	0	0	0	0	UTLKM6800	6800	0	0	0	0	0
GTLKM7000	7000	0	0	0	0	0	UTLKM7000	7000	0	0	0	0	0
GTLKM7200	7200	0	0	0	0	0	UTLKM7200	7200	0	0	0	0	0
GTLKM7400	7400	225	-25	207	300	200	UTLKM7400	7400	0	0	0	0	0
GTLKM7600	7600	91	0	90	94	850	UTLKM7600	7600	0	0	0	0	0
GTLKM7800	7800	0	0	0	0	0	UTLKM7800	7800	0	0	0	1000	0
GTLKM8000	8000	0	0	0	0	0	UTLKM8000	8000	0	0	50	1100	0

Information Contained

This viewer enables you to obtain the IDX Stock Options information based on its underlying code. The information includes Strike Price, Last Price, Changes (last price - previous price), Bid, Ask, Volume, and Open Interest.

Futures Spot

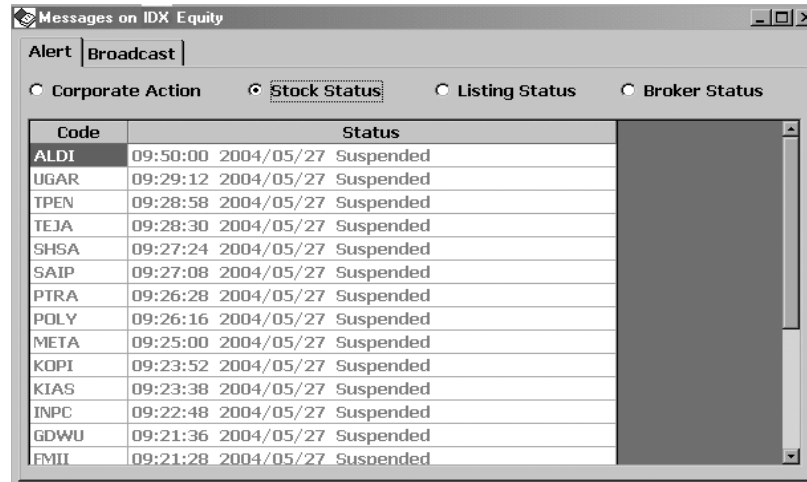
Future Spot On IDX Futures - LQ2D06X22 (LQ45 Futures 2 Days 22 Nov 2006)									
Contract Code		LQ2D06X22	LQ45 Futures 2 Days 22		LQ45	367.9300		-1.6520	
TX Time	Last Price	Vol	+/-	%	F/D(Buy)	Buyer	F/D(Sell)	Seller	Board
11:43:06	368.5000	1	0.5700	0.1547	--	--	--	--	RF
11:35:52	368.5500	1	0.6200	0.1682	--	--	--	--	RF
11:31:25	368.5000	1	0.5700	0.1547	--	--	--	--	RF
11:19:02	368.2000	3	0.2700	0.0733	--	--	--	--	RF
11:18:29	368.3000	1	0.3700	0.1005	--	--	--	--	RF
11:18:01	368.2500	1	0.3200	0.0869	--	--	--	--	RF
10:46:09	368.6500	1	0.7200	0.1953	--	--	--	--	RF
10:37:25	367.9000	1	-0.0300	-0.0082	--	--	--	--	RF
09:52:04	368.0000	1	0.0700	0.0190	--	--	--	--	RF

**Market
Information**

Information Contained

This viewer shows the difference between underlying value and the selected contract value yang during the trading time with time interval = 1 minute.

Messages



Code	Status		
ALDI	09:50:00	2004/05/27	Suspended
UGAR	09:29:12	2004/05/27	Suspended
TPEN	09:28:58	2004/05/27	Suspended
TEJA	09:28:30	2004/05/27	Suspended
SHSA	09:27:24	2004/05/27	Suspended
SAIP	09:27:08	2004/05/27	Suspended
PTRA	09:26:28	2004/05/27	Suspended
POLY	09:26:16	2004/05/27	Suspended
META	09:25:00	2004/05/27	Suspended
KOPI	09:23:52	2004/05/27	Suspended
KIAS	09:23:38	2004/05/27	Suspended
INPC	09:22:48	2004/05/27	Suspended
GDWU	09:21:36	2004/05/27	Suspended
FMII	09:21:28	2004/05/27	Suspended

**MarketInfo
Viewers**

Information Contained

This viewer shows alerts and messages sent by other MarketInfo users.

Click Alert tab to show stock status, broker status, corporate action, listing status alerts.

Click Broadcast tab to show messages sent by other MarketInfo users.

To change market in this viewer:

- Right click on the viewer title bar, a pop up menu will be shown.
- Select one of the available markets, such as IDX Equity, from the pop up menu.

STOCK INQUIRY

As the name implies, Stock Inquiry section contains comprehensive inquiries on stocks. The viewers available in this category are:

1. Personalized Stock Quotation
2. Alphabetical List
3. Most Active Stock
4. Top Gainers/Losers
5. Multiple Queue
6. Order Book
7. Detail TX List
8. Running Trade
9. Incoming Orders
10. Detailed Quote
11. Sectoral Quote
12. Trade Summary Matrix
13. Buy/Sell Queue
14. Relative Performance
15. Corporate Action
16. Non-Regular Transaction List
17. Advertisement Order

**Stock
Inquiry**

MarketInfo
Viewers

Right-click within the viewer to open this menu.

Type the stock code
here and press
<Enter>.

R	Code	Board	Exchange	Last	Last Vol (Shr)	+/-	+/-%	Buyer	Seller	Bid Vol (Shr)	Bid	Offer
EASII5400	RG	IDX	310.00	1,000	18.00	74.01		Load Quote		110	25.00	320.00
TLKM	RG	IDX	7,350	18,500	150	2.01		Save Quote		5,500	7,300	7,350
GGRM	RG	IDX	14,050	2,500	500	3.61		Delete Quote		2,500	1,000	14,050
ETLKM7200	RG	IDX	150.00		5	19.00	100.01	Universal Masking		5	25.00	150.00
								Price Alert				
								Volume Alert				
								✓ Board				
								✓ Exchange				
								Universal Links				
								Insert	Ctrl+Ins			
								Delete	Del			
								Copy				
								Copy All				

Information Contained

- **Green** – the stock price is advancing compared with the previous day's closing price.
- **Red** – the stock price is declining compared with the previous day's closing price.
- **Black** – the stock price is the same as that in previous day's closing. If the background color is black, the font color will be **white**.
- **Blue** (blinking) – the stock price is currently updated, it blinks once and then the color turns into green if the price advances, red if declines and black if remains unchanged.

Now, a recommendation indicator column is included within the viewer. You can select to display long term or daily recommendations. This can be done using Universal Masking.

Green-colored cell with B letter indicates buy recommendation, red with S indicates Sell recommendation, while Blue with H indicates Hold recommendation. If both recommendation types are checked, then the recommendation indicator will be diagonally divided with the upper left segment shows daily/short-term recommendation and the lower right shows the long-term recommendation. See the following illustration for an example.

Selected Item(s)	Possible Symbol to Appear
Daily or Long Term	B S H
Both are selected	

The daily indicator is based on the majority of short term recommendation value for a certain stock found Daily Calls viewer.

You can double-click on the recommendation shown on this viewer to open the Daily Calls viewer.

Also, the facility of copying the quote data to Microsoft Excel is now enhanced by providing a link between the viewer and the saved Excel file so that a real time update of the quote data on the viewer will be immediately reflected on the Excel file.

Stock
Inquiry

How to Operate

To view a quotation, type a stock code in the **Code** field, then press **<Enter>**. To view a quotation in other boards, besides typing the stock code you should also enter the board code under the **Board** column, then press **<Enter>**.

Inserting a Row

You can also insert a new row within this viewer by using **<Ctrl + Insert>** key on your keyboard or right click your mouse on a row, a pop up window will appear and click the **Insert** option on the pop up window.

Deleting a Row

To clear a stock code already typed, under column **Code**, click on the code to delete and press **<Delete>** key on keyboard or right click your mouse on the code to delete, a pop up window will appear and click the **Delete** option on the pop up

window.

A message will be displayed, click **Yes** to confirm the deletion.

Masking

You can customize which information to display by selecting the mask. To customize the masks:

1. Right-click within the viewer.
2. Select **Universal Masking**, **Universal Masking** window will be displayed.
3. Select the check box when you wish the masking to display and clear the checkmark of the mask that you do not wish to display them.

Sorting Content

The content can be sorted according to **Stock Code**, **Exchange**, **Board**, **Last Done**, **Last Volume**, **Changes**, **Changes Pct**, **Total Freq.**, **Total Volume** and **Total Value**.

Saving, Loading and Deleting a Quotation

To save your time from typing your monitored stock codes repeatedly, MarketInfo provides the ability to save your quotation. Right click any area inside the viewer, then choose **Save Quote**. Name your quotation by typing it in the provided box then click **OK**. To load the saved quotation, just select **Load Quote** from the menu, choose the quotation you want to open.

You can also delete a saved quotation. To delete the quotation, right-click your mouse inside the viewer's content, choose **Delete Quote** and then click on the *quotation* name that will be deleted. A warning message will be displayed, choose **Yes** to delete the *quotation*.

Linking Viewers

To get additional information of an individual stock, you can double-click the row of the stock code. MarketInfo will open additional viewer(s) displaying information of the corresponding stock. If the selected viewer(s) is already open, MarketInfo will change the stock information currently displayed in that viewer into the one you select.

To determine which additional viewer(s) to open, you should mark the viewer's name on the **Universal Links** viewer (before double-clicking the row of the stock).

Link from MarketInfo to StockTrade:

From PQ to buy/sell form of StockTrade => double click at bid size/price or offer size/price column of PQ viewer.

Hiding Board/Exchange Columns

You can hide these two columns by right-clicking within the viewer, and then clearing the checkmark (√) for the column you want to hide.

To show again the hidden column, do as above until you see the checkmark (√) next to the column name.

**Stock
Inquiry**

Alphabetical List

Mark the related option(s) you wish to display.



No	Code	Name	Last	+/-	Buyer	Seller
1	AALI	Astra Agro Lestari Tbk	1,575	150	BK	KZ
2	ABBA	Abdi Bangsa Tbk	0	0		
3	ABDA	Asuransi Bina Dana Arta Tbk	0	0		
4	ACAP	Andhi Chandra Automotive P Tbk	450	10	PG	IN
5	ADES	Ades Alfindo Tbk	0	0		
6	ADFO	Adindo Foresta Indonesia Tbk	0	0		
7	ADMG	GT Petrochem Industries Tbk	100	5	BS	EL
8	AHAP	Asuransi Harta Aman P Tbk	2,500	150	KP	FZ
9	AIMS	Akbar Indo Makmur Stimec Tbk	0	0		
10	AIMS-W	Warrant Seri I Akbar Indo M.S.	0	0		
11	AISA	Asia Intiseleria Tbk	285	-10	XT	AS
12	AKPI	Argha Karya Prima Inds. Tbk	0	0		
13	AKRA	Aneka Kimia Raya Tbk	0	0		

MarketInfo
Viewers

Information Contained

This viewer enables you to view the complete quotation of all listed stocks, warrants and rights on the selected market.

You can also see the current highest bid volume and bid price, also the current lowest offer price, and offer volume. When there is a matched transaction, this viewer will also display the buyer ID and seller ID.

Filtering Information to Display

Filtering is a quick way to display only subset of data in a viewer so that it displays only information that meet the criteria you choose. This feature temporarily hides information you do not want to display.

In Alphabetical List, you can filter data by **Stock**, **Warrant** and **Right** and. To filter information, mark the related check box(es) of your option. To hide the option, clear the check mark from the related box.

Note: The filter feature is not applicable if you select **IDX Future** or **IDX Options**.

To change market in this viewer:

- Right click on the viewer title bar, a pop up menu will be shown.
- Select one of the available markets, such as **IDX Options**, from the pop up menu.

Most Active Stock/Futures

Select the analysis period. Select the board type here.

No	Code	Name	Value (mn)	Vol (Shr)	Freq	Last Done
1	TLKM	Telekomunikasi Indonesia Tbk	78,013.61	20,303,500	630	3,875
2	ASII	Astra International Tbk	42,589.04	14,267,000	638	3,000
3	INDF	Indofood Sukses Makmur Tbk	28,741.15	47,889,500	631	625
4	RALS	Ramayana Lestari Sentosa Tbk	18,396.83	7,646,500	310	2,425
5	AALI	Astra Agro Lestari Tbk	15,812.44	10,328,500	402	1,575
6	GGRM	Gudang Garam Tbk	15,089.88	1,888,000	395	7,950
7	UNTR	United Tractors Tbk	13,636.30	49,000,000	561	290
8	ISAT	Indosat Tbk	13,330.48	1,508,500	326	8,900
9	HMSP	H M Sampoerna Tbk	13,225.60	3,916,500	227	3,400
10	MEDC	Medco Energi International Tbk	9,524.93	7,325,500	244	1,300
11	BBCA	Bank Central Asia Tbk	7,796.15	3,302,500	268	2,350
12	INKP	Indah Kiat Pulp & Paper Tbk	7,124.71	44,379,500	456	165

Stock
Inquiry

Information Contained

This viewer enables you to view the most active stocks for the current and historical trading. You can see the highest bid volume and price, the lowest volume and price offered. Data on all columns are based on regular board, except columns **Value**, **Volume** and **Frequency**.

How to Operate

This viewer displays real-time information. However, you can also view the historical data up to three months behind.

Sorting Content

The contents of this viewer can be sorted based on any of the column headings available. The default setting is sorted by the **Value** column and showing today data.

To change market in this viewer:

- Right click on the viewer title bar, a pop up menu will be shown.
- Select one of the available markets, such as IDX Options, from the pop up menu.

Top Gainers / Losers

Code	Name	Ttl Vol (Lot)	Close	Last	+/-	+/-%
MYRXP	Saham Seri	1,402	345	375	30	8.70
TMPO-W	Warrant Se	29,953	1	27	26	2,600.00
MEDC	Medco Ener	31	950	975	25	2.63
TINS	Timah Tbk	1,067	1,425	1,450	25	1.75
KDSI	Kedawung :	50	345	350	5	1.45
SUDI	Surya Dum	20	285	290	5	1.75
SIPD	Sierad Prod	50	85	90	5	5.88
CEKA	Cahaya Kal	251	295	300	5	1.69
MITI	Siwani Trimi	613	120	125	5	4.17
MYRX	Hanson Ind	200	70	75	5	7.14

Check this box to display top gainers/losers since the stock's Initial Public Offering.

MarketInfo
Viewers

Information Contained

This viewer lists the top gainers/losers for the current and historical trading. You can either view this list to be based on any of the column headings available. The price change is comparable to those at the beginning of the period.

Adjustment Issue

When there is a corporate action, historical data for the related stock are provided as post-adjustment. This is based on the adjustment factor. The purpose of this adjustment is to provide more accurate data for analysis when comparing current data with the historical ones. Most adjustment is reflected in price and volume.

For example, there is an action 3 : 1 bonus issue at cum date 21 June 2000 (meaning each 1 stock will receive 3 new bonus stocks). Then, historical data will be adjusted 25% to the prices and quadruplicated to the volume up to the cum date.

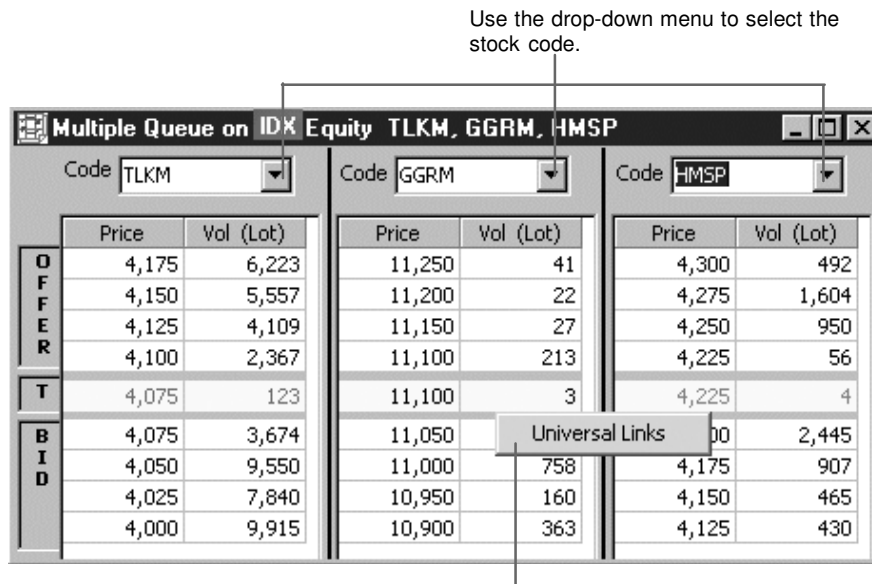
Real-Time Issue

If you set the top gainers/losers for the current trading day, the information will be updated on a real-time basis. However, if the starting period is in the past, MarketInfo will calculate the gain/loss only once and will not update the calculation when new data arrive.

To change market in this viewer:

- Right click on the viewer title bar, a pop up menu will be shown.
- Select one of the available markets, such as IDX Options, from the pop up menu.

Multiple Queue



Right-click within the viewer, to open this pop-up menu.

Information Contained

Multiple Queues displays the order queues of up to three different stocks at once. The stocks in queue to be displayed are the four best **Bids** and four best **Offers** only.

This viewer consists of three parts.

- The upper part is the **Offer** queue of selected stock.
- The lower part is the **Buy** queue of the stock.
- Between the buy and sell queue of the viewer is the **Last Traded** price with its certain color to identify the status of the **Last Traded** price.

When the **Last Traded** price is higher than previous price, then the font color of the **Last Traded** row will be green, when the price is unchanged the font color is black, and red color indicates a declining price.

The **Bid** section sorts the stock from the highest bid price, while the **Offer** section sorts from the lowest offer price. All sections are updated continuously during trading hours.

To change market in this viewer:

- Right click on the viewer title bar, a pop up menu will be shown.
- Select one of the available markets, such as IDX Options, from the pop up menu.

Stock
Inquiry

Order Book

Buy Book						Sell Book					
Time	Ord.No.	Price	F/D	Vol (Lot)	es Vol (Lot)	Time	Ord.No.	Price	F/D	Vol (Lot)	aves Vol (Lot)
10:50:50	73692646	1,400	F	300	300	10:50:32	73692617	1,425	D	43	43
10:47:49	73692388	1,350	D	100	100	10:44:14	73692001	1,425	D	20	20
10:33:37	73690785	1,350	D	20	20	10:42:29	73691804	1,475	D	10	10
10:30:22	73690586	1,350	D	10	10	10:40:36	73691500	1,400	D	20	0
10:30:17	73690579	1,375	D			10:40:25	73691463	1,425	D	5	5
10:24:53	73690121	1,400	F			10:34:41	73690836	1,425	D	20	20
						10:34:32	73690828	1,400	D	20	0
						10:34:04	73690802	1,425	D	50	50
						10:33:13	73690772	1,400	D	10	0
						10:32:36	73690736	1,400	D	5	0
Total (Lot) 1,440						Total (Lot) 1,392					

Information Contained

Order Book displays the exact time an order is entered for an individual stock. The data is sorted using the time when an order is entered. Also displayed in this viewer are order numbers and the investor type (**F** for foreign and **D** for domestic).

This viewer is divided into two sections, the left part displays buy orders and the right one displays the sell orders.

You can also view your order number. To view your order number:

- Right-click your mouse on the viewer. A pop-up window will appear. Choose My Order Queue. The following window will be displayed.

Time	Ord.No.	Price	F/D	Vol(Lot)	Leaves Vol(Lot)
09:34:44	73678137	95	D	130	130

No. of Queue: 1
Total Vol. Queue (Lot): 130

- Click on the Price Filter text. Here you can set to view only orders that have price are equal, smaller or greater than your order price by clicking the corresponding check box button.
- Before This Order radio button is used to display only previous orders (orders that happened before your order). All orders radio button displays all orders. Number of queue displays the total number of queue excluding your order. Total Volume of queue displays queued orders total volume excluding your order volume.

Detail TX List

Use this drop-down menu to select the stock code to open.

Mark this box to enable filtering.

Click this arrow to open Filter options.

Detail TX List on IDX Equity - TLKM (Telekomunikasi I...

Code **TLKM** ☐ Filter

TX Time	Price	+/-	Vol(Shr)	Acc. Vol	F/D (B)	Buyer	Seller	F
15:05:39	3,200	100	1,000	20,015,500	D	OD	EP	
15:05:27	3,225	125	2,000	20,014,500	D	CP	AR	
15:04:00	3,200	100	5,000	20,012,500	D	OD	ZL	
14:57:22	3,225	125	5,500	20,007,500	D	KW	AR	
14:57:22	3,225	125	2,500	20,002,000	D	KW	EM	
14:57:22	3,225	125	4,500	19,999,500	D	KW	IF	
14:54:18	3,200	100	20,000	19,995,000	D	OD	YU	

Top Five Buyers

Buyer	Avg Price	Ttl Vol(Shr)
HG	3,179.5149	6,741,500
PD	3,146.8983	2,015,000
LG	3,177.2293	1,570,000
BK	3,151.5504	1,290,000
EL	3,183.9239	952,500

Top Five Sellers

Seller	Avg Price	Ttl Vol(Shr)
KZ	3,148.9433	2,247,500
OD	3,163.0858	1,632,500
LG	3,171.9736	1,458,000
YU	3,160.6054	1,131,500
HP	3,182.4841	785,000

Ttl Vol(Shr) 20,020,500 **Avg Price** 3,166.0030

Stock Inquiry

Information Contained

Detail TX List displays comprehensive information of an individual stock. It also provides the top five buyers and sellers for the selected stock below the transaction list section.

Filtering

This viewer provides you with an excellent filtering feature. You can filter the data displayed by any fields available. Mark the **Filter** box to activate the filtering.

Time From 14:00 to 15:00

Vol (Lot) From 10 to 30

Price From 2900 to 2900

Board RG

Buyer Type F

Buyer ID --

Seller Type D

Seller ID --

OK Cancel

You can filter the data displayed using any fields available.

To customize the filter, click on the **Filter** arrow. A small window will open, then you can customize all the filtering options using this window.

Resizing Viewer

You can change the size of the viewer, to change the viewer size:

1. Place the pointer on the edge of the viewer until it becomes a double-headed arrow.
2. Hold down the left mouse button and drag it out to enlarge the viewer and drag it in to make it smaller.

To change market in this viewer:

- Right click on the viewer title bar, a pop up menu will be shown.
- Select one of the available markets, such as IDX Options, from the pop up menu.

Running Trade

Running Trade on IDX Equity						Buyer
TX Time	Code	Last	Vol (Shr)	+/-		
11:59:59	INTP	1,450	8,500	50		GR
11:59:59	INTP	1,450	1,500	50		LS
11:59:58	GGRM	14,050	2,500	500		KC
11:59:55	BTEK	260	3,000	-15		SH
11:59:54	AUTO	1,300	4,000	25		CP
11:59:54	AUTO	1,300	9,000	25		CP
11:59:53	TLKM	7,350	18,500	150		BW
11:59:53	TLKM	7,350	5,000	150		BW
11:59:53	TLKM	7,350	1,500	150		BW
11:59:47	TLKM	7,400	47,000	200		HG
11:59:47	BNLI	35	200,000	0		SP
11:59:29	PTBA-W	180	1,000	5		MI
11:59:29	TLKM	7,350	23,500	150		ML
11:59:29	TLKM	7,350	26,500	150		ML
11:59:25	AUTO	1,300	1,000	25		IA
11:59:25	GGRM	14,050	5,000	500		BK
11:59:25	GGRM	14,050	3,500	500		ML
11:59:19	SUBA	120	500,000	5		BQ
11:59:18	AUTO	1,300	1,000	25		IA
11:59:12	PTBA-W	180	1,000	5	2.86	MI
11:59:12	AUTO	1,300	500	25	1.96	IA

Right-click at the *viewer's* heading, to open this pop-up menu. You can choose to open the Running Trade viewer in Page or Running Mode.

Stock
Inquiry

Information Contained

This viewer displays all transactions on the market live on one screen. Every transaction performed on all boards will appear on this viewer, and the latest trade record appears at the top of the viewer.

Color Code

The data on this viewer is displayed using a color-coded format as follows:

- Red** : The stock price is declining as compared to its previous' closing price.
- Green** : The stock price is advancing as compared to its previous' closing price.
- Black** : The stock price remains unchanged as compared to its previous' closing price. If the background color is set black, this black color becomes **white**.

Board Color

To differentiate between regular and non-regular boards, you can see the background color of the row. The background color for non-regular boards is **yellow**.

IDX Futures Contract

This viewer can also display information on IDX futures contract.

To display the futures contract information:

1. Do one of the following:
 - Click on the control menu
 - Right-click on the title bar.
2. Select **IDX Futures** from the menu.

IDX Fixed Income (Including government bonds)

This viewer can also display information on corporate and government bonds.

To display the futures contract information:

1. Do one of the following:
 - Click on the control menu
 - Right-click on the title bar.
2. Select **IDX FITS or IDX IGS TS** from the menu.

Display Options

This feature offers two display options:

Running Mode: data is displayed as running text with the latest trade record appears at the top of the viewer.

Page Mode: Every transaction is displayed row by row until the viewer is full. The next trade will be displayed in a new page.

To choose the display mode:

1. Do one of the following.
 - Right-click on the title bar.
 - Click on the viewer control menu.
2. Select **Running Page** or **Page Mode** from the menu.

Incoming Orders

Incoming Order on IDX Equity										Restore	
Buy Orders						Sell Orders				Move Size	
Time	Ord. No.	Code	Price	F/D	Vol (Shr)	Time	Ord. No.	Code	Price	Minimize	
11:29:07	68182395	IDSR	550	D	5,000	11:28:55	68182393	RALS	2,525	Maximize	
11:29:02	68182394	PNIN	150	D	1,000	11:28:46	68182390	CNKO	20	Close Alt+F4	
11:28:53	68182392	ISAT	8,000	D	2,000	11:28:38	68182388	IKP-W	620	Running Mode Page Mode	
11:28:50	68182391	ELTY	20	D	500	11:28:28	68182386	PTRA	25	Separate Mode Collapse Mode	
11:28:44	68182389	BKSW-A	330	D	32,500	11:28:24	68182384	MEDC	1,075	Print Content Print Form	
11:28:29	68182387	ADES	675	D	5,000	11:28:23	68182383	MBAI	125	Resize Font Default Font	
11:28:27	68182385	MEDC	1,050	D	12,500	11:28:20	68182382	RIMO	100	IDX Equity	
11:28:16	68182380	BKSW-A	330	D	30,000	11:28:18	68182381	UGAR	115	IDX Options	
11:28:03	68182374	BKSW-A	330	D	37,500	11:28:13	68182379	PWSI	50	IDX Equity	
11:28:01	68182373	BKSW-A	330	D	37,500	11:28:12	68182378	SAIP	90		
11:27:43	68182363	TLKM	3,475	D	2,500	11:28:10	68182377	SMRA	105		
11:27:38	68182362	LMAS	800	D	25,000	11:28:08	68182376	ATPK	90		
11:27:37	68182361	RALS	2,425	D	2,500	11:28:05	68182375	ATPK	95		
11:27:36	68182359	JPRS	105	D	5,000	11:28:00	68182371	PICO	90		
11:27:34	68182358	BKSW-A	320	D	75,000	11:28:00	68182372	MYOR	330		
11:27:27	68182357	PWSI	30	D	12,000	11:27:57	68182370	PICO	95		
11:27:24	68182356	ASBI	325	D	5,000	11:27:55	68182369	RALS	2,500		

MarketInfo
Viewers

Right-click at the viewer's heading, to open this pop-up menu. You can choose to open the Incoming Orders viewer in Page or Running Mode.

Information Contained

The Incoming Orders viewer displays real-time information of incoming orders. The viewer is separated into two panes, where the left one displays all Buy order records, and the right pane shows all Sell order records.

To change the market, right click your mouse on the viewer title bar. A pop up window will appear. On the pop up window there are four market options that you can choose, which are: IDX Equity, IDX Options

Detailed Quote

Use this drop-down menu to select the stock code.

Select the board type to display.

Buy/ Sell queue for individual stock.

Record high/ low.

Trading summary.

Detail transaction.

Toggle button.

Additional details.

Bid	Vol (Shr)	Offer	Vol (Shr)
1,250	403,500	1,275	50,000
1,225	197,000	1,300	587,000
1,200	406,500	1,325	726,500
1,175	210,000	1,350	856,500

Day	1,275	1,275
Year	2,275	850
Life	3,437	475

Total Vol(Shr)		Closing Price(27/11/02)	
629,500		1,275	
Total Value		Total TX Freq	
802,612,500		60	
Avg Mkt Price		Avg TX Size (Shr)	
1,275,0000		10,492	
Underlying		Premium(Disc)	
n/a		n/a	

Last TX	TX Time	Price	Vol (Shr)	> (Bt)	Buyer	Seller	/D (Sel)
	15:43:57	1,275	5,000	D	PI	BR	D
	15:04:26	1,275	10,000	D	ZG	HS	D
	14:35:56	1,275	25,000	D	XL	BJ	D
	14:27:19	1,275	5,000	D	DG	DS	D
	14:25:46	1,275	7,500	D	CP	DS	D

Click to hide details

Shares : Issued	1,526,967,000	Foreign Avail	1,309,083,019
Listed	1,526,967,000	PAR	1,000
Mkt Cap	1,946,882,925,000	Weight %	0.9397

Stock Inquiry

Information Contained

Detailed Quote displays real-time complete information of an individual stock. In this viewer you can view:

Buy/ Sell Queue.

Detail Transaction List.

Record High/Low, during the current transaction day, the year and the whole life of the stock.

Volume, value and frequency data.

Now when a IDX equity code is selected, Closing Price Date will be shown next to Closing price.

The Closing Price Date here is the last traded date of a given stock, not the previous day's date. For example if a stock was last traded a week ago, then the closing price date is the date when the stock was last traded a week ago.

When a futures contract code is selected, Settlement Price will be shown next to the Closing price.

How to Operate

To display information for a stock/future contract:

1. In the **Code** section, select the stock code to open.
2. In the **Board Type** section, click the drop-down menu and select the board to which the stock belongs.

Showing/Hiding Additional Details

Additional details provides extra information on the issued and listed shares, its market capitalization, the number of shares available for foreign investors, its nominal price and its weight percentage against total market value. To show/hide the additional details, click the toggle button.

To change market in this viewer:

- Right click on the viewer title bar, a pop up menu will be shown.
- Select one of the available markets, such as IDX Options, from the pop up menu

Sectoral Quote

Sectoral Quote											
Sectors											
											Board Type Regular Board
Code	Last	+/-	+/- %	High	Low	Open	Avg Price	Ttl Vol	Bid	Offer	Alert%
UNWR	0,500	950	4.86	0,500	9,600	19,600	0,201.7291	173,500	20,400	20,500	
DLTA	0,000	500	5.26	0,000	0,000	10,000	0,000.0000	13,500	9,500	10,000	
BATI	9,700	450	4.86	9,700	9,700	9,700	9,700.0000	500	9,300	9,650	
BYSP	7,800	300	4.00	7,800	7,600	7,600	7,700.0000	2,000	7,500	8,000	
BYSB	4,600	250	5.75	4,600	4,600	4,600	4,600.0000	1,000	4,000	4,800	
TSPC	5,150	125	2.49	5,150	5,000	5,100	5,099.5702	174,500	5,100	5,150	
NIPS	1,100	100	10.00	1,100	1,050	1,050	1,075.0000	3,000	0	1,100	
RALS	2,575	75	3.00	2,575	2,450	2,500	2,535.5507	2,183,500	2,550	2,575	
ISAT	8,500	50	0.59	8,600	8,400	8,500	8,515.8154	5,071,000	8,500	8,550	
HITS	975	25	2.63	975	975	975	975.0000	2,000	875	950	
BRNA	1,500	25	1.69	1,500	1,500	1,500	1,500.0000	3,000	1,400	1,500	
ULTJ	550	25	4.76	550	550	550	550.0000	163,500	525	550	
KKGI	160	15	10.34	160	160	160	160.0000	500	0	135	
JAKA	60	5	9.09	65	55	60	60.4661	9,986,000	55	60	
EPMT	445	5	1.14	445	435	435	442.8258	433,500	440	445	
AKSI	395	5	1.28	395	395	395	395.0000	3,000	0	390	
UNTR	345	5	1.47	345	330	335	337.8569	7,749,000	340	345	
LPBN	435	5	1.16	440	425	430	432.1817	1,398,000	430	435	
LPKR	165	5	3.13	165	165	165	165.0000	11,000	145	165	
PNIN	160	5	3.23	165	160	160	160.4717	265,000	155	160	
MLIA	140	5	3.70	140	140	140	140.0000	55,000	130	140	
UNIT	205	5	2.50	205	205	205	205.0000	430,000	200	205	
ASIA	20	5	33.33	20	15	15	15.2381	262,500	15	20	

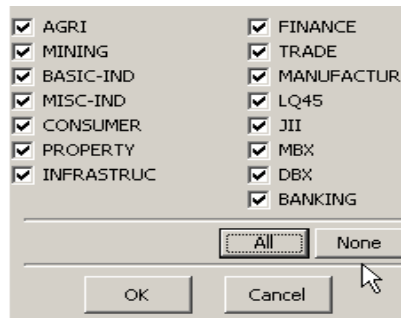
Viewer Function

You can find information such as last done, best bid/offer price of stocks in a sector by using this form. You can also compare today closing price with last closing price, and this information is displayed on alert column.

How to Use

To change sector:

- Click Sectors button, the following pop-up window will appear.
- The AGRI sector is selected by default, you can choose another sector here. For example, if you choose DBX then all stocks on this sector will be shown. To change the board type, click on Board Type drop-down menu.



Explanations for the Alert column:

Green= If the percentage of stock price change is not greater or equal to 10% of yesterday closing price.

Yellow= If the percentage of stock price change is between 10% and 15% of yesterday closing price.

Red= If the percentage of stock price change is greater than 15% of yesterday closing price.

Trade Summary Matrix

Select the stock code to open.

You can choose either to view in form of table or chart.

You can choose the market session here.

Price	Volume	Open	Close
195	2,500	0	0
197	1,000	1	0
200	3,192	2	0
220	35	2	0
216	200	1	0
215	120	1	0
230	94	1	0
225	140	5	
245	110	5	
240	20	2	
250	1,310	18	
260	10	0	

Copy All
Transaction at Price
Summary at Price
Universal Links

Freq: 187 Ttl Vol: 25,634

Right-click on the content of the viewer to open a popup window.

Information Contained

This viewer shows detail prices of the selected stock during the current/ historical trading day. There are two options to view this viewer: in form of **Chart** or **Table**. When you need the detail of a certain transaction, right-click on the related price, volume or lot, a popup window will be displayed, choose **Transaction at Price** or **Summary at Price** to display the detail of the transaction.

Transaction at price on IDX Equity - MANY at 220

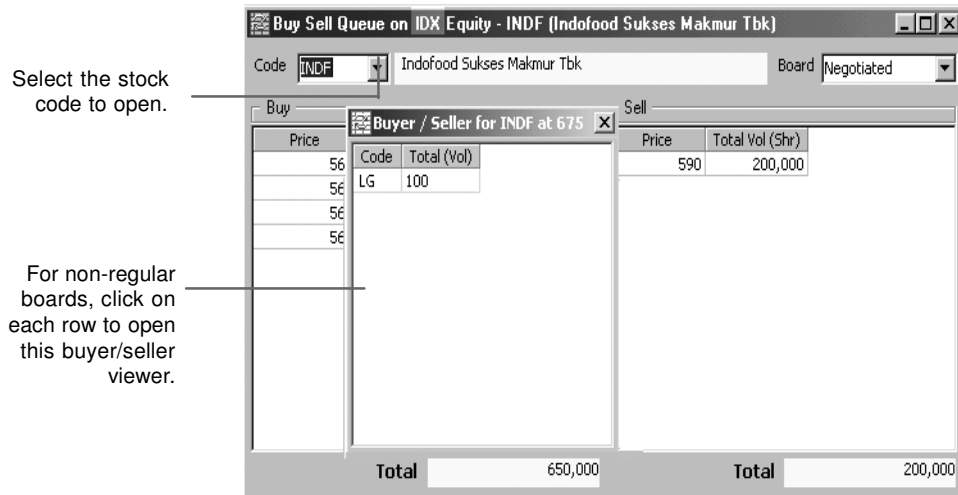
MANY (Manly Unitama Finance Tbk)

TX Time	Vol(Lot)	F/D (Buy)	Buyer	Seller	F/D (Sell)
10:27:24	5	D	SP	XX	D
10:26:10	25	D	HS	RA	D
10:26:10	20	D	HS	AN	D
10:26:10	30	D	HS	AS	D
10:26:10	25	D	HS	AH	D
10:26:10	25	D	HS	CC	D
10:26:10	30	D	HS	ZR	D
10:26:10	20	D	HS	UI	D
10:26:10	10	D	HS	BP	D

To change market in this viewer:

- Right click on the viewer title bar, a pop up menu will be shown.
- Select one of the available markets, such as IDX Options, from the pop up menu

Buy / Sell Queue



Information Contained

Buy/Sell Queue displays the buy and sell queue for an individual stock. The **Buy** section sorts the stocks from the highest bid price, while the **Sell** section sorts them from the lowest offer price. Both **Buy** and **Sell** sections are updated continuously during trading hours.

For non-regular orders, you can click on each row to open the buyer or seller of the securities.

IDX Futures Contract

This viewer can also display information on IDX futures contract.

To display the futures contract information:

1. Do one of the following:
 - Click on the control menu
 - Right-click on the title bar.
2. Select **IDX Futures** from the menu.

IDX Fixed Income

This viewer can also display information on corporate and government bonds.

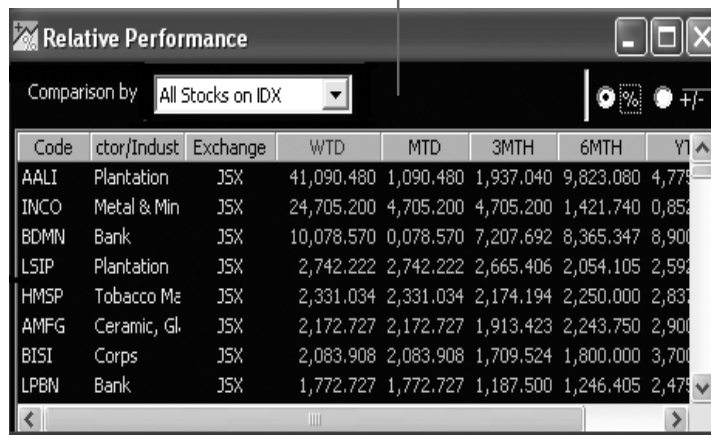
To display the futures contract information:

1. Do one of the following:
 - Click on the control menu
 - Right-click on the title bar.
2. Select **IDX FITS** or **IDX IGS TS** from the menu.

Stock
Inquiry

Relative Performance

Click this down-arrow to select the option to view.



Relative Performance

Comparison by: All Stocks on IDX

Views: % (selected), Value, +/-

Code	Sector/Industry	Exchange	WTD	MTD	3MTH	6MTH	YTD
AALI	Plantation	JSX	41,090.480	1,090.480	1,937.040	9,823.080	4,773.080
INCO	Metal & Min	JSX	24,705.200	4,705.200	4,705.200	1,421.740	0,853.080
BDMN	Bank	JSX	10,078.570	0,078.570	7,207.692	8,365.347	8,900.000
LSIP	Plantation	JSX	2,742.222	2,742.222	2,665.406	2,054.105	2,592.000
HMSP	Tobacco Ma	JSX	2,331.034	2,331.034	2,174.194	2,250.000	2,831.000
AMFG	Ceramic, Gl	JSX	2,172.727	2,172.727	1,913.423	2,243.750	2,900.000
BISI	Corps	JSX	2,083.908	2,083.908	1,709.524	1,800.000	3,700.000
LPBN	Bank	JSX	1,772.727	1,772.727	1,187.500	1,246.405	2,473.000

You can view the content by its percentage or value of changes.

MarketInfo
Viewers

Information Contained

The Relative Performance measures stock's price or sectors indices change in percentage as well as in absolute value within several time periods. The given time periods are, **WTD** (Week to Date), **MTD** (Month to Date), **3MTH** (quarterly) and **6MTH** (half yearly) and **YTD** (Year to Date). The options available to measure are:

- **All Stocks on IDX**

The viewer displays all stocks listed on IDX.

-

- **Personal Stocks**

You have to type each stock you wish to display. You can also retrieve quotations that you already saved in Personalized Quotation.

- **Sector**

Consists of industrial sectors on the related exchange. Selecting one of the sectors will display all stocks categorized into the same sector.

- **Indices**

Displays information on all available sectors.

Available sectors on the IDX are: **Agri, Mining, Basic-Ind, Misc-Ind, Consumer, Property, Infrastructure, Finance, Trade, Manufacture, LQ 45, Composite, DBX, Banking, MBX and JII, CSPI.**

How to Operate

Click the percentage button to view the content according to the percentage of changes, and click +/- button to view the content according to the value of changes.

Loading a Quotation

When you choose **Personal Stocks** from the drop-down menu, you can load the quotation which you have saved in Personalized Quotation viewer.

To load the quotation:

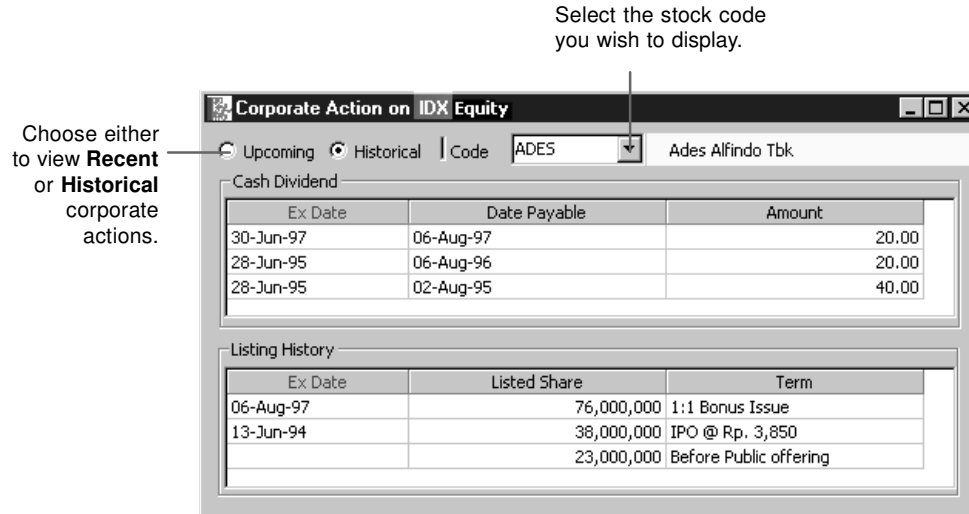
1. Right-click within the viewer.
2. Choose **Load Quote**.
3. Select the quotation name from the list.

Sorting Content

The contents of this viewer can be sorted to be based on any of the column headings available.

Stock
Inquiry

Corporate Action



MarketInfo
Viewers

Information Contained

This viewer displays all corporate actions taking place in either IDX. The information is divided into two sections, **Upcoming** and **Historical**.

How to Operate

Click **Upcoming** button to view all announcements of upcoming corporate actions. Click **Historical** button to view all corporate actions which have been taken by a certain company.

Sorting Content

The contents of this viewer can be sorted to be based on any of the column headings available.

Non Regular Transaction List

Crossing Board TX List on IDX Equity						
Board Crossing Board						
TX Time	Code	Price	Vol (Shr)	+/-	Buyer	Seller
16:01:00	MPPA	495	500	-5	HR	HR
16:00:57	MPPA	495	500	-5	HR	HR
16:00:44	SMGR	6,250	2,000	-100	BQ	BQ
16:00:09	ISAT	8,250	1,000	-150	LG	LG
15:59:21	TLKM	2,800	50,000	0	YJ	YJ
15:59:21	MEDC	1,425	50,000	-25	LG	LG
15:58:29	AALI	850	10,000	-175	LG	LG
15:58:10	SIPD	75	25,000	0	SH	SH

Information Contained

Non Regular Transaction List is identical with Running Trade viewer except that it displays trading taking place on non-regular boards. You can view the stock price, number of volume traded and the changes. Buyer and seller for the related stock are also displayed.

How to Operate

By default, this viewer displays transaction on **Crossing** board. To display information on another board, click the down-arrow and select the board you want to open.

Below is a list of non-regular boards that you can display:

Market	Board
IDX	Crossing
	Cash Market
	Immediate
	Negotiated

Stock Inquiry

Advertisement Order(s)

Advertisement Order(s) on IDX Equity						
Time ▾	ID	F/D	Board	Action	Code	Price
14:43:13	IU	D	NG	BUY	BNBR	38
14:34:28	LG	D	NG	N/A	BNBR	36
14:30:54	IF	D	NG	BUY	BNBR	37
14:29:16	SM	D	NG	BUY	BNBR	37
14:29:11	BJ	D	NG	BUY	MYRXPW	2
14:28:02	BF	D	NG	N/A	BNBR	36
14:28:02	BF	D	NG	N/A	BNBR	36
14:28:01	BF	D	NG	N/A	BNBR	36
14:28:00	BF	D	NG	N/A	BNBR	36
14:26:34	YP	D	NG	N/A	BNBR	36
14:25:00	CP	D	NG	BUY	BNBR	37
14:19:57	IP	D	NG	BUY	BBNI	1,000
14:09:34	OD	F	NG	BUY	BNBR	38
14:05:25	PC	D	NG	BUY	MYRX	13

Information Contained

This viewer shows IDX negotiated orders for the current trading day.

MarketInfo
Viewers

BROKER INQUIRY

The Broker Inquiry section contains comprehensive information on brokers' activities. There are seven viewers that can be invoked from this section, i.e.:

1. Most Active Broker
2. Broker Activities Report
3. Broker Trade Summary
4. Individual Broker
5. Broker Financial Info
6. Broker Financial Summary

**Broker
Inquiry**

Most Active Broker

Use the drop-down menu to determine the period.

Check this box to display Regular Board only.

Check the button by which the data will be sorted.

No	ID	Buy (Mn)	Sell (Mn)	Overall (Mn)
1	DP	174,636.05	93,730.56	268,366.61
2	ZP	47,910.65	94,869.42	142,780.07
3	LG	46,054.62	67,829.70	113,884.32
4	KZ	85,244.15	18,392.71	103,636.87
5	YU	72,182.77	27,294.72	99,477.49
6	OD	43,869.13	44,592.36	88,461.49
7	KI	34,340.30	43,368.68	77,708.98

MarketInfo
Viewers

Information Contained

This viewer displays the most active brokers for the current trading activities and those in a certain period. You can choose to rank the brokers in terms of value, volume, or trading frequency. The brokers are ranked using the overall value of trading they perform.

Sorting Content

You can sort the content of this viewer to be based on any of the columns available. To sort the content, click the column heading.

Tips To look for the Broker ID to broker name translation, open the Individual broker viewer.

To change market in this viewer:

- Right click on the viewer title bar, a pop up menu will be shown.
- Select one of the available markets, such as IDX Options, from the pop up menu.

Broker Activities Report

Use this drop-down menu to select the Broker ID.

You can view either buy or sell transactions

Click this down-arrow to choose the board type.

You can view either all stocks or an individual stock.



The screenshot shows a window titled "Broker Activities Report on IDX Equity - LG (Trimegah Securities Tbk)". It features a "Broker ID" dropdown menu set to "LG", a "Code" dropdown menu set to "ALL", and radio buttons for "Buy" and "Sell" (with "Buy" selected). A "Click For Board Type" button is also present. Below these controls is a table with the following data:

TX Time	Code	Board	Vol(Lot)	Price
11:58:46	INKP	RG	500	265
11:54:02	UNTR	RG	13	550
11:53:33	BLTA	RG	500	750
11:52:34	KLBF	RG	8	405
11:48:14	RMBA	RG	100	250
11:47:33	RMBA	RG	200	250
11:45:57	SOBI	RG	1	825

Total Vol (Lot) 35,556

Broker Inquiry

Information Contained

This viewer displays **all trading** (either buying or selling) activities of an individual broker. The list is sorted based on transaction time. You can choose to view the trading associated with that broker on all stocks or an individual stock listed on IDX.

How to Operate

You can choose to view trading on all boards or a certain board only. To customize the boards to display, click the **Board Type** down-arrow, a combo box with a list of boards will be displayed. Mark the box next to the board type you wish to display.

To change market in this viewer:

- Right click on the viewer title bar, a pop up menu will be shown.
- Select one of the available markets, such as IDX Options, from the pop up menu.

Broker Trade Summary

Use the drop-down menu to select the Broker ID.

You can view the information based on **Buy**, **Sell** and **Net** transaction.



Code	Share Name	Ttl Vol (Lot)	Avg Price	Value(mn)
TLKM	Telekomunikasi Indonesia	930	2,125.0000	988.13
SMCB	Semen Cibinong Tbk	2,600	463.0769	602.00
RIMO	Rimo Catur Lestari Tbk	1,550	311.2903	241.25
HMSP	H M Sampoerna Tbk	19	14,892.1100	141.48
TKIM	Pabrik Kertas Tjiwi Kimia T	405	575.0000	116.44
MYRXPW	Waran Hanson Industri U	1,000	61.0000	30.50
TMPO-W	Warrant Seri I Tempo Inti	1,540	27.7143	21.34
TMPO	Tempo Inti Media Tbk	100	320.0000	16.00
ASII	Astra International Tbk	15	1,900.0000	14.25
MPPA	Matahari Putra Prima Tbk	50	455.0000	11.38
MIDI	Multimedia Tbk	55	370.0000	10.18

Buy 248,490,000.00 Sell 521,192,000.00 Total 769,682,000.00

MarketInfo
Viewers

Information Contained

This viewer displays the summary of **all trading** (either buying or selling) activities of an individual broker. The list is sorted based on its total value.

It sums up the total trading volume of each stock then calculates its average price. If you click the **Net** button, Net Volume and Net Value headings will be displayed within the viewer. The Net Value is Sell Value subtracted by Buy Value. And the Net Volume is Total Buy Volume subtracted by Total Sell Volume.

How to Operate

Choose a broker code to view the summary information of the trading activities of the selected broker. Click the **Buy**, **Sell** or **Net** button to display the summary information based on the corresponding transaction type.

Detail Transaction

For a better look in the summary, you can open detail information on each of the summary record. To open the detail information, place your mouse over the row of the stock code and double-click. The detail transactions for the stock will be displayed in a new window.

Individual Broker

Kapita Sekurindo	
Address	Jl. Batu Jajar No. 37 Hayam Wuruk Jakarta 10120
Phone	(021) 384-4133
Fax	(021) 385-1912
Contact Person	Fanny Setiadi
Title	Dealer
Email	

You can choose to open the broker by typing its name or selecting the code.

Click this button to update the information shown within this viewer.

Information Contained

Individual Broker contains complete contact information on all brokerage houses listed in IDX.

Online updating feature is also provided here, click the Update button to update the displayed information. The update will be verified by AmCapital before being displayed within the viewer.

You can choose to open the broker by entering its name or selecting its code.

To open by broker name, click **By Company Name** radio button and type (all or part of) the broker name in the provided box, then press **<Enter>**. To open by its code, click **By Code** radio button, click the down arrow and select the broker code to open.

Broker
Inquiry

Printing Content

To print the content of this viewer:

1. Right-click within the viewer.
2. Select **Print** from the menu.

MarketInfo
Viewers

Broker Financial Info

Use this drop-down menu to select the broker ID.

Shortcut to Individual Broker viewer.

Click this button to update the information shown within this viewer.

	1998	1999	2000
Total current assets	6.586,92	-	-
LT investments	195,00	-	-
Net fixed assets	403,53	-	-
Other assets	12.601,76	-	-
Total Assets	19.787,21	32.263,98	33.693,87
Total Liabilities	5.042,33	18.409,79	21.040,96
PaidUpCap	-	12.000,00	12.000,00
Share capital	15.000,00	-	-
Retained earnings	-255,12	-	-
Adjustment	-	-	-
Total Shareholders' Equity	14.744,88	13.854,19	12.652,91
Total Liabilities & Equity	19.787,21	-	-

Broker
Inquiry

Information Contained

Broker Financial Info displays an individual broker's financial statement, which includes **Balance Sheet** and **Income Statement**.

Online updating feature is also provided here, click the Update button to update the displayed information. The update will be verified by AmCapital before being displayed within the viewer.

Printing Content

To print the content of this viewer:

1. Right-click within the viewer.
2. Select **Print** from the menu.

Broker Financial Summary

MarketInfo
Viewers

Broker Financial Summary on IDX						
Broker Id	As Per	Assets	Liabilities	Equity	Revenue	Net Profit
AD	Dec 1998	12,154.263	1,834.470	10,319.794	3,078.767	
AE	Dec 1998	12,375.745	8,587.514	3,788.231	5,619.550	-3
AF	Dec 1998	19,787.208	5,042.328	14,744.879	407.879	-1
AG	Dec	16,877.141	4,224.659	12,652.482	6,336.360	-3

Disclaimer: The information herein is for information purposes only. The factual information given is taken from sources we believe to be reliable but is not guaranteed by us and does not support to be a complete statement of summary of the available data.

Information Contained

Broker Financial Summary is almost similar to Broker Financial Info viewer. The difference is that this viewer displays the **latest summary** of **all** brokers' financial statements. It provides information about brokers' Assets, Liabilities, Equities, Revenue and their Net Profit.

Sorting Content

You can sort the content of this viewer to be based on any of the columns available. To sort the content, click the column heading.

Note All values are displayed in million.

ANALYSIS

Analysis is an innovative tool, which is designed to enable users to analyze certain stocks, brokers and warrants with greater depth. You can also view ratio highlights and research summary of a company listed on IDX . The viewers housed in this section are:

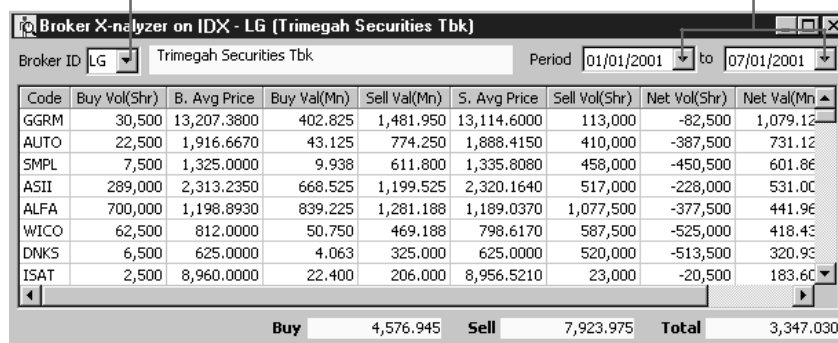
1. Broker X-nalyzer
2. Share X-nalyzer
3. Ratio Highlights
4. Company Info
5. Financial Report
6. Daily Calls
7. Broker Calls
8. Analyst Calls
9. Market Temperature
10. Warrant Analysis
11. Futures Contract Information
12. General Shareholder Meetings
13. Research Contribution
14. Volatility Indicator
15. Liquidity Indicator
16. Ratio Graph
17. Industry Ratio Highlights

Analysis

Broker X-nalyzer

Use this drop-down menu to select the Broker ID to be analyzed.

Select the start/ end periods of analysis using the drop-down menus.



Code	Buy Vol(Shr)	B. Avg Price	Buy Val(Mn)	Sell Val(Mn)	S. Avg Price	Sell Vol(Shr)	Net Vol(Shr)	Net Val(Mn)
GGRM	30,500	13,207.3800	402.825	1,481.950	13,114.6000	113,000	-82,500	1,079.12
AUTO	22,500	1,916.6670	43.125	774.250	1,888.4150	410,000	-387,500	731.12
SMPL	7,500	1,325.0000	9.938	611.800	1,335.8080	458,000	-450,500	601.86
ASII	289,000	2,313.2350	668.525	1,199.525	2,320.1640	517,000	-228,000	531.00
ALFA	700,000	1,198.8930	839.225	1,281.188	1,189.0370	1,077,500	-377,500	441.96
WICO	62,500	812.0000	50.750	469.188	798.6170	587,500	-525,000	418.43
DNKS	6,500	625.0000	4.063	325.000	625.0000	520,000	-513,500	320.93
ISAT	2,500	8,960.0000	22.400	206.000	8,956.5210	23,000	-20,500	183.60

Buy 4,576.945 Sell 7,923.975 Total 3,347.030

MarketInfo
Viewers

Information Contained

This viewer displays information on individual broker, in a different perspective. You can view summary of a broker's activities (buying and selling activities, and net transaction) over a certain period. You can also watch what that broker has bought or sold most, with each stock volume and average price.

Sorting Content

The content of this viewer can be sorted based on any column headings available.

To change market in this viewer:

- Right click on the viewer title bar, a pop up menu will be shown.
- Select one of the available markets, such as IDX Options, from the pop up menu.

Share X-nalyzer

Use this drop-down menu to select the stock code to be analyzed.

Select the start/ end periods of analysis using the drop-down menus.

Broker	Bought (Shr)	B.Avg Price	B. %	Sold (Shr)	S.Avg Price	S. %	Net Qty (Shr)
ML	700,000	2,125.0000	22.23	105,500	2,119.0760	3.35	594,500
HR	422,500	2,101.3310	13.41	0	0.0000	0.00	422,500
KI	252,500	2,100.0000	8.02	0	0.0000	0.00	252,500
BI	202,500	2,125.0000	6.43	0	0.0000	0.00	202,500
SP	127,500	2,100.9800	4.05	150,500	2,124.9170	4.78	-23,000
RX	105,000	2,125.0000	3.33	0	0.0000	0.00	105,000
RS	103,500	2,124.1550	3.29	0	0.0000	0.00	103,500
SS	100,000	2,100.0000	3.18	100,000	2,125.0000	3.18	0
Ttl Bought (Shr)	3,149,500			Ttl Sold (Shr)			3,149,500

Information Contained

This viewer displays summary of an individual stock transaction over a certain period of time. It shows complete information on every broker's activities, whether buy or sell, along with the average price over that period. The data is sorted based on its net quantity, with the biggest positive value placed on top. Each broker can be immediately identified as to how much the broker has participated in that stock trading activity.

Sorting Content

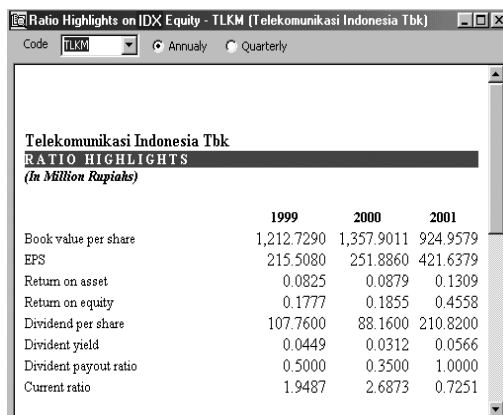
The content of this viewer can be sorted based on any column headings available.

To change market in this viewer:

- Right click on the viewer title bar, a pop up menu will be shown.
- Select one of the available markets, such as IDX Options, from the pop up menu.

Analysis

Ratio Highlights



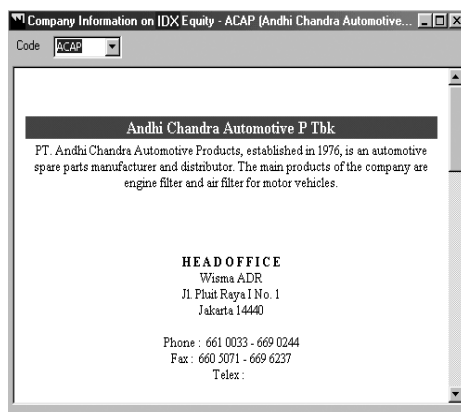
	1999	2000	2001
Book value per share	1,212.7290	1,357.9011	924.9579
EPS	215.5080	251.8860	421.6379
Return on asset	0.0825	0.0879	0.1309
Return on equity	0.1777	0.1855	0.4558
Dividend per share	107.7600	88.1600	210.8200
Divident yield	0.0449	0.0312	0.0566
Divident payout ratio	0.5000	0.3500	1.0000
Current ratio	1.9487	2.6873	0.7251

Information Contained

Ratio Highlight displays financial ratios and highlights of a listing company, such as capital ratio, profitability ratio. You can also view the annually or quarterly ratio highlights by clicking the **Annually** or **Quarterly** button.

MarketInfo
Viewers

Company Info



Andhi Chandra Automotive P Tbk
PT. Andhi Chandra Automotive Products, established in 1976, is an automotive spare parts manufacturer and distributor. The main products of the company are engine filter and air filter for motor vehicles.
HEAD OFFICE Wisma ADR Jl. Pluit Raya I No. 1 Jakarta 14440 Phone : 661 0033 - 669 0244 Fax : 660 5071 - 669 6237 Telex :

Information Contained

As the name implies, this viewer display in-depth information on a company listed on IDX stock exchanges.

You can view the brief history of the company, the board of commissioners and shareholders and the underwriters.

Financial Report

Financial Report on IDX Equity - ABDA (Asuransi Bina Dana Arta Tbk)

Code: ABDA ☒ Annually ☐ Quarterly

Asuransi Bina Dana Arta Tbk
BALANCE SHEETS
(In Million Rupiahs)

	1999	2000	2001
Investments	61,660.00	26,167.63	43,359.32
Cash & cash equiv	4,538.20	-	-
Premium receivables	12,538.03	-	-
Reinsurance receivables	4,710.41	-	-
Retrocession receivables	-	-	-
Other receivables	8,120.16	-	-
Current accounts - Bank Indonesia	-	-	-
Current accounts - other banks	-	-	-
Placements with other banks	-	-	-
Trading account securities held	-	-	-

Information Contained

Financial Report displays the latest financial condition of a company listed in IDX . You can view the balance sheet for the last three years/quarters and the income statement.

Broker Calls

Broker Calls on IDX Equity - AH (Makinta Securities)

Broker Code: AH Makinta Securities Daily

Code	Analyst	Rec	Target Price	Last Update
TLKM	Temmy Wijaya	Hold	3,625	04/07/2002
GGRM	Djohan Wijaya	Buy	3,600	04/07/2002
ASII	Yabes Tandori	Buy	3,750	04/07/2002
BNII	Pieter Tandori	Sell	100	04/07/2002

☐ Disclaimer

Information Contained

Using this viewer, you can see all recommendations given by a selected broker. These recommendations can be the daily or long-term recommendations.

Analysis

MarketInfo
Viewers

Analyst Calls on IDX Equity

Analyst: - ALL - Daily

Code	Analyst	Rec	Target Price	Last Update
TLKM	Ana	Hold	3,625	04/07/2002
GGRM	Djohan Timur	Buy	3,600	04/07/2002
AII	Fahmi Mandolang	Buy	3,750	04/07/2002
BNII	Lina Wati	Sell	100	04/07/2002

☐ Disclaimer

Information Contained

This viewer enables you to see all recommendations given by financial analysts. These recommendations can be the daily or long-term recommendations.

To select an analyst, click on the analyst drop-down menu.

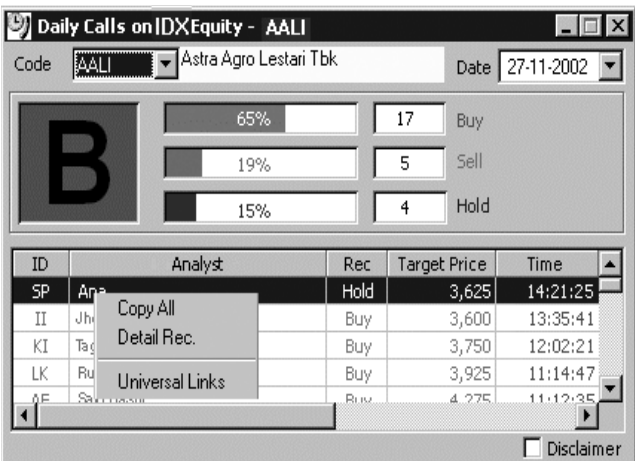
Futures Contract Information

Future Contract Information - LQNOV01 (LQ45-NOV-2001)			
Contract Code	LQNOV01	LQ45-NOV-2001	
Contract Name	LQ45-NOV-2001	Expiry Date	30 November 2001
Underlying	LQ45	Tick Size	0.0100
Exchange	Surabaya Stock Exchange	Daily Limit	0.0000
Trading Months	November	Multiplier	Rp. 100,000
Trading Hours	Mon - Fri (9.30 - 16.00)	Contract Size	Rp. 1,000,000

Information Contained

Futures Contract Information shows basic information on a future contract. The information that you can find here includes the contract name and its price, the underlying index and the stock exchange in which it is traded, the trading time, the date when the contract expires, the tick size of contract price movement, its multiplier value and the contract size.

Daily Calls



Information Contained

This viewer gives a Buy, Sell or Hold **daily** recommendation of a certain stock, where the majority recommendation will be displayed. You can select the date of a recommendation from the Date drop down box.

The recommendations are given by a number of contributing brokers, and shown on a percentage bar that indicates the percentage of brokers giving the recommendation. For example, when the majority of brokers (in percentage) give Buy recommendation for a selected stock, the viewer will display a bold green B.

How to Operate

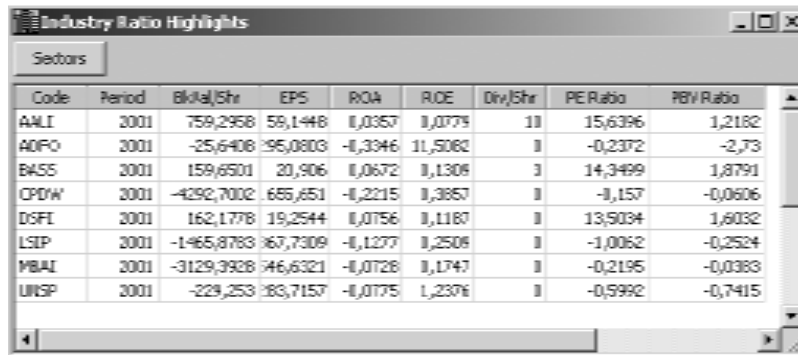
In the **Code** field, click the down-arrow and select the stock code to open from the list. And select the date of recommendation from the Date drop-down menu. To open comments of each recommendation, right-click on each recommendation row, a pop-up window will appear. Then choose detail rec.

To change market in this viewer:

- Right click on the viewer title bar, a pop up menu will be shown.
- Select one of the available markets, such as IDX Options, from the pop up menu.

Analysis

Industry Ratio Highlights



Code	Period	BkVal/Shr	EPS	ROA	ROE	Div/Shr	PE Ratio	PBV Ratio
AALI	2001	759,2958	59,1448	11,0357	11,0779	11	15,6396	1,2182
ADFO	2001	-25,6408	-95,0803	-11,3346	11,5082	11	-0,2372	-2,73
BASS	2001	159,6501	20,906	11,0672	11,1308	3	14,3499	1,8791
CPDW	2001	-4292,7002	655,651	-11,2215	11,3857	11	-1,157	-0,0606
DSFI	2001	162,1778	19,2544	11,0756	11,1187	11	13,5034	1,6032
LSEP	2001	-1465,8783	-67,7309	-11,1277	11,2508	11	-1,0062	-0,2524
MBAL	2001	-3129,3928	-46,6321	-11,0728	11,1747	11	-0,2195	-0,0383
UNSP	2001	-229,253	-83,7157	-11,0775	1,2376	11	-0,5992	-0,7415

Viewer Function

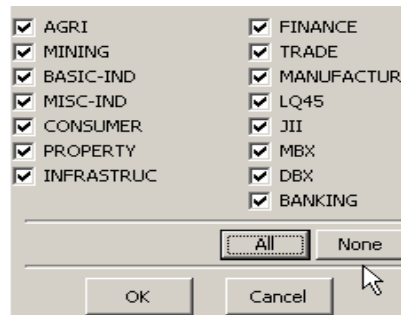
This application can be found on Analysis menu of your MarketInfo. This application shows major financial ratios of each stock issuer which is on a selected sector. The ratios are:

Book Value / Share, EPS (Earning per Share), ROA (Return On Assets), ROE (Return On Equity), Dividend / Share, P/E Ratio, PBV Ratio.

How to Use

To change sector:

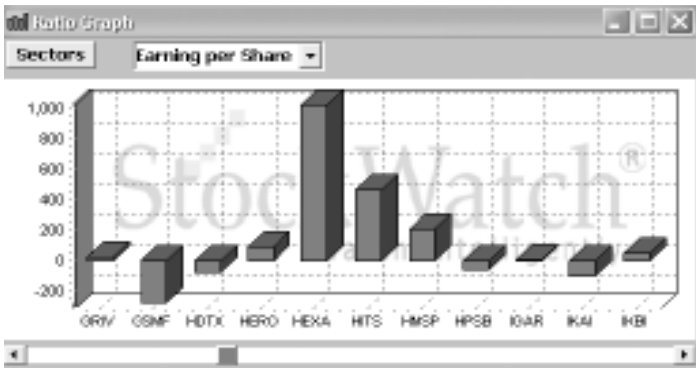
- Click Sectors button, the following pop-up window will appear.



- The AGRI sector is selected by default, you can choose another sector here. For example, if you choose DBX then all stocks on this sector will be shown.

To change the board type, click on Board Type drop-down menu.

Ratio Graph



Viewer Function

You can also view the financial ratios on Industry Ratio Highlights in bar charts in this application.

Liquidity Indicator

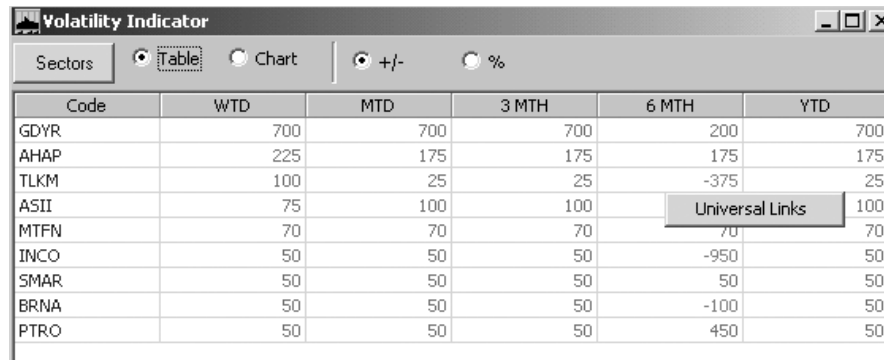
The Liquidity Indicator window displays a table of liquidity data. The "Sectors" dropdown is set to "Table". The "Volume" radio button is selected. The "Board Type" dropdown is set to "NSE". The table has columns for Code, WTD, MTD, 3MTH, 6MTH, and YTD. The data is as follows:

Code	WTD	MTD	3MTH	6MTH	YTD
IMKP	111	317	668	668	668
ASII	101	189	662	662	662
PMBN	91	334	718	718	718
TLKM	64	263	983	983	983
INDF	78	179	458	458	458
KLPF	59	130	243	243	243
LPBN	39	526	911	911	911
BCIC	39	44	52	52	52
UNTR	38	70	393	393	393

Viewer Function

Liquidity Indicator enables you to find out total volume or total transaction value of each stock in a sector within a given periode, which are: WTD (Week to Date), MTD (Month to Date), 3MTH (Three months), 6MTH (Six months), and YTD (Year to Date). You can also display the information in bar charts.

Volatility Indicator



The screenshot shows a window titled "Volatility Indicator" with a menu bar containing "Sectors", "Table", and "Chart". Below the menu bar are radio buttons for "+/-" and "%". The main area displays a table with the following data:

Code	WTD	MTD	3 MTH	6 MTH	YTD
GDYR	700	700	700	200	700
AHAP	225	175	175	175	175
TLKM	100	25	25	-375	25
ASII	75	100	100	Universal Links	100
MTFN	70	70	70	70	70
INCO	50	50	50	-950	50
SMAR	50	50	50	50	50
BRNA	50	50	50	-100	50
PTRO	50	50	50	450	50

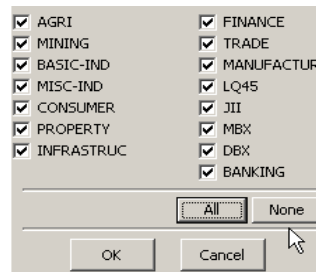
Viewer Function

Volatility Indicator enables you to find out the daily average value and percentage of stock price change in a sector within a given periode, which are: WTD (Week to Date), MTD (Month to Date), 3MTH (Three months), 6MTH (Six months), and YTD (Year to Date). You can also display the information in bar charts.

How to Use

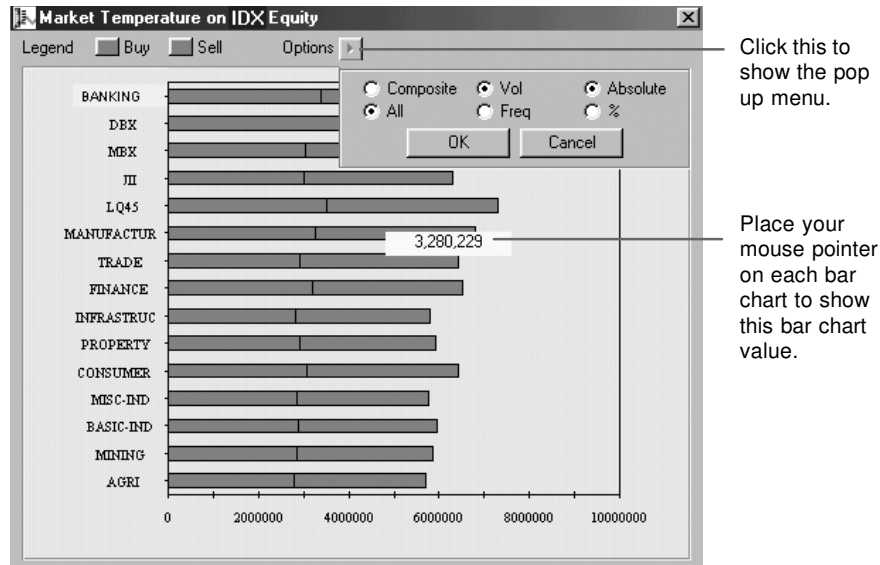
To change sector:

- Click Sectors button, the following pop-up window will appear.



- The AGRI sector is selected by default, you can choose another sector here. For example, if you choose DBX then all stocks on this sector will be shown.
To change the board type, click on Board Type drop-down menu.
- To display the percentage click %. Otherwise click on Chart to display the information in bar charts.

Market Temperature



Information Contained

This viewer enables users to measure the current market sentiment by comparing the volume or frequency of buy and sell orders. The comparison result is displayed in bar charts.

In plotting the charts, there are three options to choose, which are:

- Composite or All Option, which means if you choose All, all indices will be shown, if you choose Composite, only the composite index will be displayed.
- Volume or Frequency Option, this means you can choose to display the market temperature charts, which show the orders in volume or frequency.
- Absolute or Percentage Option, this will enable you to display the charts showing the order information in its absolute value or percentage. For example, choosing the composite option and the volume option and the percentage option will display a chart informing volume of both buy and sell orders in percentage on the composite index.

Analysis

Warrant Analysis

Click this drop-down menu, and select the warrant code.

The screenshot shows a software window titled "Warrant Analysis on IDX". At the top, there is a drop-down menu with "MANY-W" selected and a text field containing "Warrant Seri Manly Utama". The window is divided into several sections: "Info", "Dates", and "Analysis".

Info	
Price	825
Strike Price	500
Stock Price	1500
Time to Maturity	2.188889
Risk Free Rate	0.1398

Dates	
First Exercise	3 Aug 2000
Expiration	31 Jan 2003
Listing Date	3 Feb 2000
Last Trade	27 Jan 2003
Listed Warrant	16,500,000

Analysis			
DELTA	1.	Std. Dev	0.16884
THETA	-51.473082	Black Scholes	1,131.809151
GAMMA	0.	Implied Volatility	0.
VEGA	0.000059		
RHO	805.928884		

At the bottom right of the Analysis section, there is a text box containing the result: "In the money".

Result of analysis.

Information Contained

The Warrant Analysis provides a tool to measure warrant's price performance using technical studies. The result of the analysis is indicated with

In the Money : If the sum of the warrant price and its exercise price are less than the related stock price. The color used is **green**.

At the Money: If the sum of the warrant price and its exercise price are equal to the related stock price. The color used is **blue**.

Out of the Money: If the sum of the warrant price and its exercise price are higher than the related stock price. The color used is **red**.

General Shareholder Meetings

You can show upcoming or past information.

General Shareholder Meetings on IDX Equity

Upcoming

Historical

Stock Code

- ALL -

Periode

11/01/2002

To

11/04/2002

All

No.	Code	Type	Date	Time	Venue	DPSDate	
1	SIPD	RUPS	18/03/2002	9:00:00	Ball Room Hotel Ken	30/07/2001	Persetu
2	ABDA	RUPS LB	17/03/2002	20:02:03	Ruang Andrawina I,	0/ / 0	Rencan
3	MTDL	RUPS LB	18/03/2002	10:00:00	Merchantile Athletic	10/09/2001	Pembag
4	PNIN	RUPS LB	18/03/2002	10:00:00	Plaza Bank Panin It	29/08/2001	Persetu
5	AUTO	RUPS LB	18/03/2002	14:00:00	Multi Function Hall G	0/ / 0	
6	LAPD	RUPS LB	18/03/2002	9:00:00	Htl Menara Peninsul	20/09/2001	Perubat
7	SULI	RUPS	18/03/2002	14:00:00	Gd. AMDI, Tower A,	18/09/2001	Persetu
8	INRU	RUPS Gab	18/03/2002	::		0/ / 0	Pengesc

Meeting Agenda

Agenda

Rapat Umum Pemegang Saham Asuransi Bina Dana Arta Tbk

Tgl : 17/03/2002

Ruang Andrawina I, Hotel Sahid Jaya It.1

Agenda :

-

Peningkatan dari 30 milyar jadi 70,7472 milyar

-

Perubahan susunan anggota komisaris perseroan

-

Peningkatan dari 30 milyar jadi 70,7472 milyar

-

Perubahan susunan anggota komisaris perseroan

The agenda toggle button shows or hides the agenda.

Information Contained

This viewer displays annual meeting agenda of shareholders of the listed companies. It consists of two sections: The top section shows schedules of the meetings and the bottom section displays the agenda in detail. The agenda will be displayed when you click the row of the schedule on the schedule section and the agenda toggle button.

How to Operate

This viewer can display information on both historical and upcoming meetings. To display forthcoming agenda, click the **Upcoming** tab to display the scheduled meetings to come. The **Historical** tab displays past meetings. You can also choose to display meetings which, have been performed by a listed company by selecting the stock code of the company in the **Stock Code** drop-down menu.

Research Contribution

Research Contribution

Hendra Bujang - Megakarya Securities

Type: Daily Text Box Mode

Code	Action	Start Price	Stop Price	Description
Daily	Long Term			

Submit Cancel

MarketInfo
Viewers

Information Contained

This viewer enables you as a financial analyst to submit buy or sell recommendation of a stock. You can also input the target price of the recommendation. Moreover, you can select the type of the recommendation, whether it's a daily recommendation or a long term recommendation.

To use the viewer you must login. You can obtain a username and password for login from research department.

The viewer can be used in text box or grid mode. In the grid mode you can input and send all of your recommendations in one quick step.

GENERAL CHART

The General Chart section contains general and comprehensive information on the overall IDX market, Stock, and Broker conditions, which is drawn in form of charts. Viewers available in this section are:

1. Market Chart
2. Chart
3. Broker Chart
4. Foreign Activity
5. Intraday Chart
6. Recommendation Chart
7. Performance Chart
8. Beta Analysis
9. Security Market Line

**General
Chart**

Chart Navigation

All the charts in MarketInfo has additional navigation feature to enable you to see the chart from a different view. The features are:

Zooming a Section of Chart

- 1 Press and hold **<Ctrl>** key in your keyboard.
- 2 Click and hold the left mouse button.
- 3 Drag your mouse to cover the area you want to enlarge.
- 4 Release both the **<Ctrl>** key and the left mouse button.

Zooming the Whole Chart

- 1 Press and hold **<Ctrl>** key in your keyboard.
- 2 Click and hold both the left and right mouse buttons.
- 3 Drag your mouse up to zoom-in and down to zoom-out.

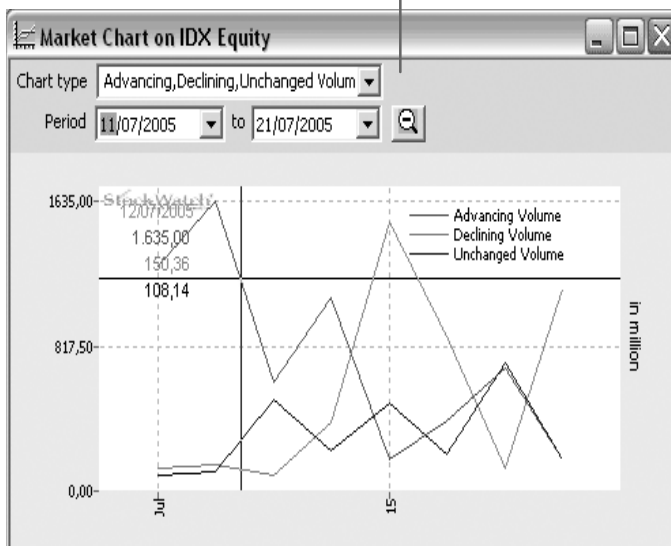
Moving the Chart

- 1 Press and hold the **<Shift>** key in your keyboard.
- 2 Click and hold both the left and right mouse buttons.
- 3 Move your mouse to move the chart accordingly.

To restore the chart default configuration, press **<R>** key on keyboard or click .

Market Chart

Use the drop-down menu to select the chart type.



General
Chart

Information Contained

Market Chart displays four momentum indicators, three of them are Market-Breadth-Indicator, i.e.:

- **Advance/Decline Line.**
- **Advance/Decline Ratio.**
- **Advance/Decline Issues.**

The fourth momentum indicator is **Advancing, Declining, Unchanged Volume**. It uses volume as the basis of its calculation. All charts are shown in a certain definable period of time, and up to three months behind.

For a comprehensive description of each chart type, please refer to *Chapter 7: Market Indicators and Technical Analysis Tools*.

How to Operate

1. Click the down arrow and select the type of analysis you wish to create.
2. Select the calculation period. When you click the down arrow, a calendar will pop up. Select the period by clicking the date in the calendar.

Stock, Index and Currency Chart

Chart types (Hi-Lo, Candle Stick, Line, Dot, Area)

Technical Analysis tools (Gann line, Fibonacci fan, etc)

Select analysis period here.

To input technical analysis parameters, click here.

Select a stock/currency code here.

Select stock or index here.

To select a technical analysis study (Aaron, Stochastic RSI, etc) click here.

A cursor/pointer to show detailed information of a chart.

Open, High, Low, Close Price, Average price/volume and Volume are shown here.

Right click on the viewer's title to open this pop-up window.

MarketInfo
Viewers

Information Contained

Stock Chart displays the price movement of an individual stock in several types of chart. It also has the technical analysis on Stock Performance against other shares, industrial sector and composite index (using Versus technical analysis).

>>> The detail stock information is shown in the red pop-up window, only if the



icon has been clicked.

The study types available in this viewer, if the  icon is clicked, are:

- Moving Averages (Simple, Exponential, Weighted).
- MACD (Moving Average Convergence/ Divergence).
- Momentum.
- RSI (Relative Strength Index).
- Versus.
- Envelopes (Env).
- Parabolic SAR.

- Bollinger Bands.
- On Balance Volume (OBV).
- Stochastic Oscillator (STC).
- Envelopes (Env).
- Parabolic SAR.
- Trend Line.
- Relative Strength Comparative.
- Aaron.
- Automatic Support & Resistance.
- Stochastic RSI.

The following technical analysis: moving average, bollinger, envelope, parabolic sar, trend line, automatic support & resistance are shown in the same area as stock price chart's area (the uppermost area).

Tools available for supporting the technical analysis are:

- Fibonnaci Arcs. 
- Fibonnaci Fans. 
- Fibonnaci Retracement 
- Fibonnaci Time Zone. 
- Gann Line. 
- Gann Fans. 
- Straight Line. 

General
Chart

How to Operate

1. Select the stock you want to analyze from the drop-down menu on **Code** field.
2. Choose the period range to analyze the stock.
3. To get detailed information on the price movement chart, use the chart format buttons, which will be described later.
4. Select the analysis tools you want to use by clicking the  icon.

Below is a brief description of the chart format buttons.

Period

Click this button to choose the period for data representation on the chart. The selections are daily (**Dy**), weekly (**Wk**), monthly (**Mn**), or yearly (**Yr**). For the weekly period, the chart will be plotted using data on the beginning of each week. For the monthly and yearly period, the chart will be plotted using data on the nearest day of the beginning of each month or year.

Chart Type

By clicking this button, you can choose how the data is to be represented on the chart. The available selections are:

HL (High-Low): the chart is constructed by plotting the high-low-open-close price data.

Candlestick: the candlestick-like chart is constructed by plotting the high-low-open-close price data.

Ln (Line): the chart is constructed by connecting the plotted closing price data.

Dot: the chart is constructed by plotting the closing price data.

Area: the chart is constructed by drawing an area.

Zoom

Click this button to do zooming on a chart.

Saving Chart

You can save the stock chart you are working on.

1. Click the **Save** button in the **Stock Chart** viewer, and the **Save As** window will appear. Then, click the **Save** button in the **Save As** window.
2. To save the chart in a different location or folder, click a different drive in the **Save in** box.
3. To save the chart in a different name, enter the name of the chart in the **File Name** box.
4. You can also select the format of the chart to be saved. There are 6 types provided, which are: **ich**, **.bmp**, **.jpg**, **.gif**, **.pcx** and **.wmf**. Click on the **Save as Type** to select the chart's format.

Loading Chart

To load the previously-saved charts:

1. Click **Load** button in the **Stock Chart** viewer, and the **Open** window will appear.
2. In the **Look in** box inside the **Open** window, select the drive containing the chart.
3. Double-click the chart name you want to open.

When you set the period, the loaded chart will be refreshed and the chart will be auto-scaled.

Note Only charts that are saved in **.ich** format can be loaded from viewer.

Cursor

This tool lets you compare information in two or more charts at the same time. By activating this tool, the mouse pointer will turn into a cross sign, and a vertical line will be displayed on each of open charts. As you move the pointer over a chart, the lines in other charts will follow. Details of the cursor position are displayed on the red pop-up window for the stock price and volume chart.

To activate this tool, click the **Cursor** button from the main chart. To turn it off, click that button once again.

To show a technical analysis graphic in a separate window

The  icon is used to show certain technical analysis charts in a separate window.

The following charts: moving average, bollinger, envelope, parabolic sar, trend line, automatic support & resistance are not shown in a separate window.

**General
Chart**

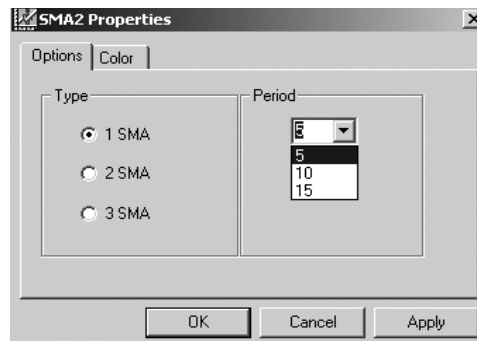
To Input Technical Analysis Parameters

There are 2 ways to input technical analysis parameters:

- Click the Option **Option** button or,
- Right click the on the technical analysis chart such as the following:



- Select Properties. The Delete option is to delete technical analysis chart. The following window be shown, after Properties is clicked:

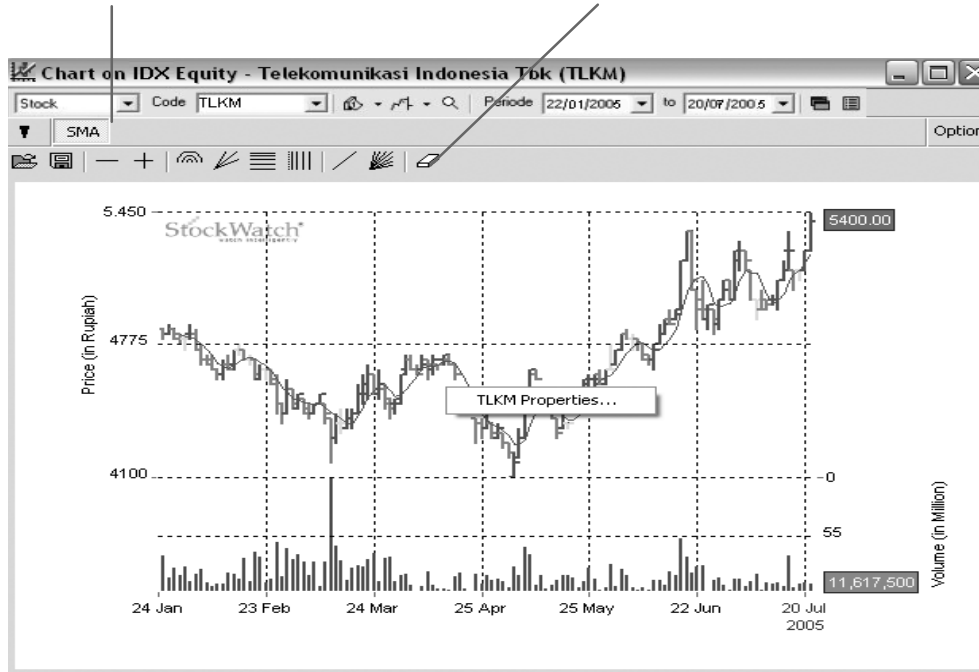


- Select Options to input the parameters. Select Color to change the technical analysis chart's color.

- You can also change the stock price chart color by right clicking the chart:

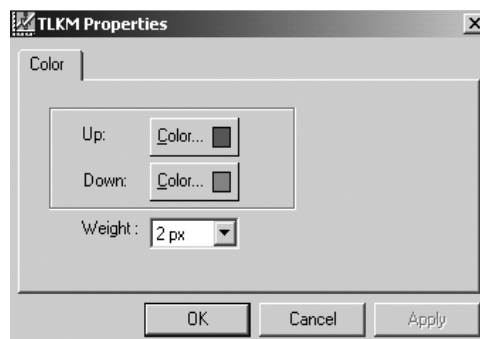
To hide/show the technical analysis chart, click here.

This button is used to delete the on screen technical analysis chart.



General
Chart

- Select Properties.
The following will appear:

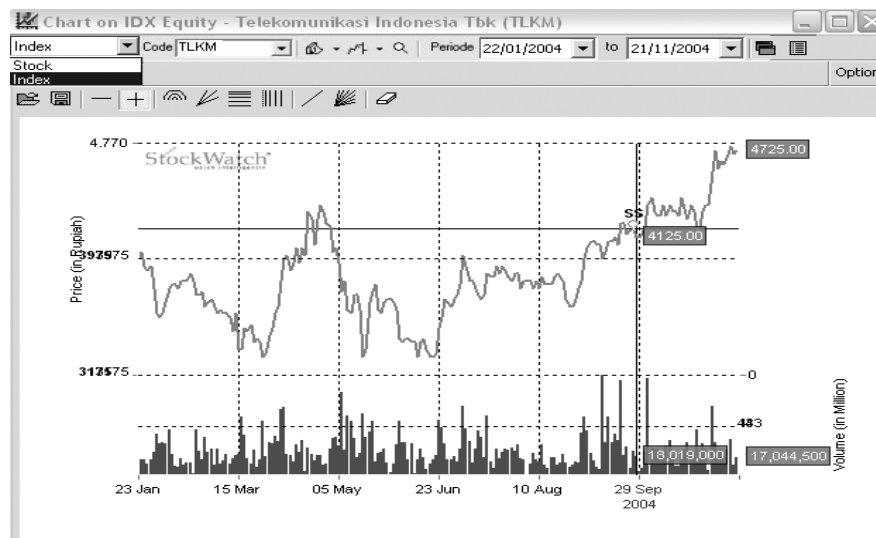


- The Last Value and Current Value (at the cursor position) of technical analysis chart will be shown in the following window:

AALI - Studies		
Studies	Current	Last
☒ SMA		
Value	2,205.00	2,485.00
☒ ASR		
Resistance 2	2,275.00	2,558.33
Resistance 1	2,250.00	2,541.67
Pivot	2,225.00	2,508.33
Support 1	2,200.00	2,491.67
Support 2	2,175.00	2,458.33

Corporate Action

Every corporate action will be shown inside the stock chart viewer, such as the following.



Corporate action codes are:

- SS = Stock Split
- RI = Right Issue
- SD = Stock Dividend
- BI = Bonus Issue
- RW = Right/Warrant

To Use Technical Analysis Tools

To Draw Fibonacci Arcs, Fibonacci Fans and Fibonacci Retracement

To draw the chart:

1. Click on one of the following icons.   
2. Click a point as a starting analysis point. Hold down the left mouse button.
3. Drag it to the other end of the desired end point and release the mouse button.
A chart will be drawn.

To Draw Fibonacci Time Zone, Gann Line and Gann Fans.

To draw the chart:

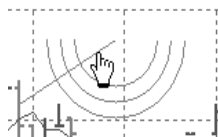
1. Click on one of the following icons.   
2. Click a point as a starting analysis point. A chart will be drawn.
3. Next, click again on the icon that you clicked before.

General
Chart

Moving The Chart

To move the chart:

1. Place your mouse over the chart until you see the following hand pointer.

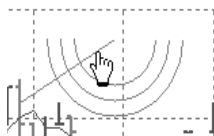


2. Hold down the left mouse button.
3. Drag the trendline to any place as you wish.

Removing The Chart

To remove the chart:

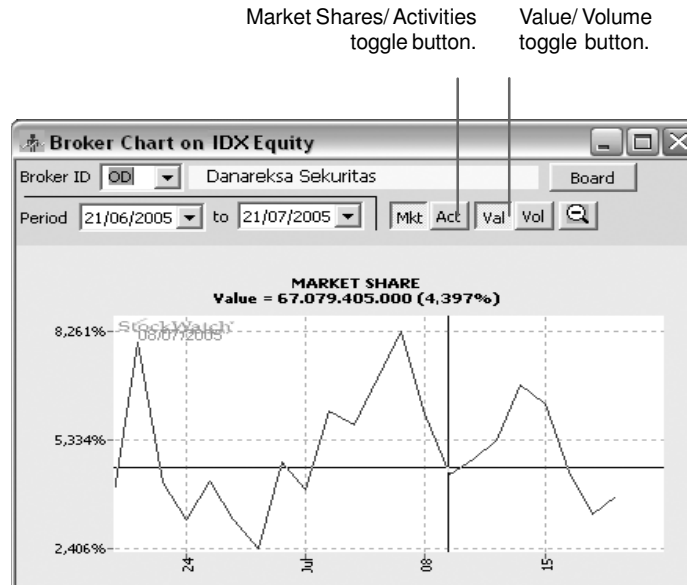
1. Place your mouse over the chart until you see the following hand pointer.



2. Press **<Delete>** button on your keyboard.

Broker Chart

MarketInfo
Viewers



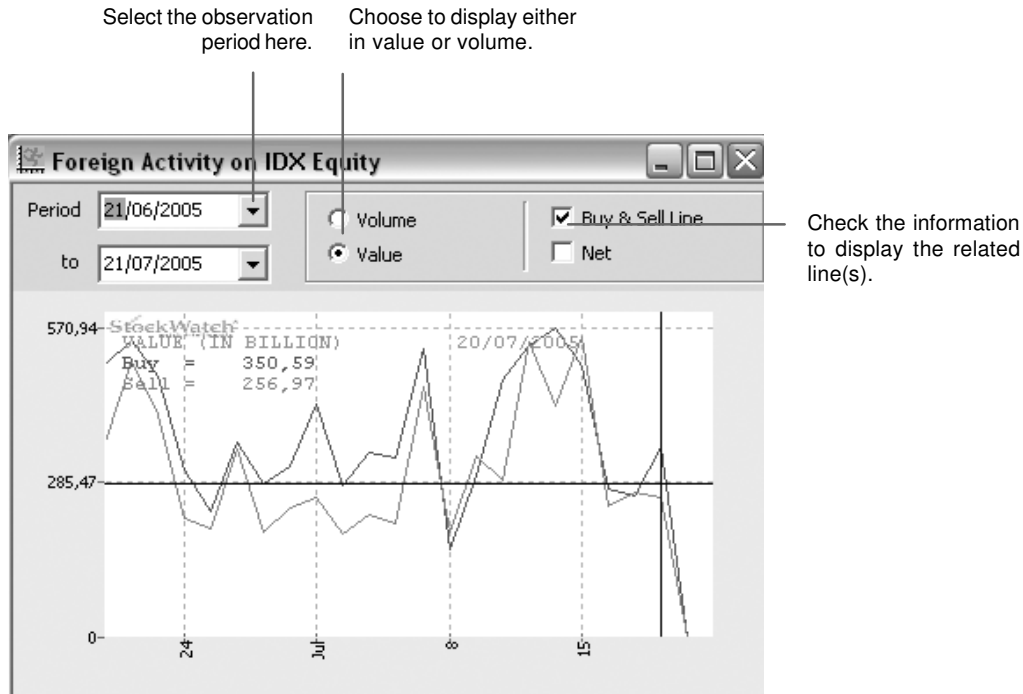
Information Contained

Broker Chart enables you to view charts of an individual broker's trading volume/ value over a certain definable period of time. You can view either its market shares or activities, based on value or volume. When broker activities chart is chosen, you can display either in bar chart or pie chart.

How to Operate

1. Select the broker ID from the drop-down menu.
2. Select the period for analysis.
3. Select the board.
4. Choose either **Market Shares** or **Activities**.
5. Choose to view the **Volume** or **Value** data.
6. For the **Activities** chart, you can choose to view the data either in **bar** chart or **pie** chart.

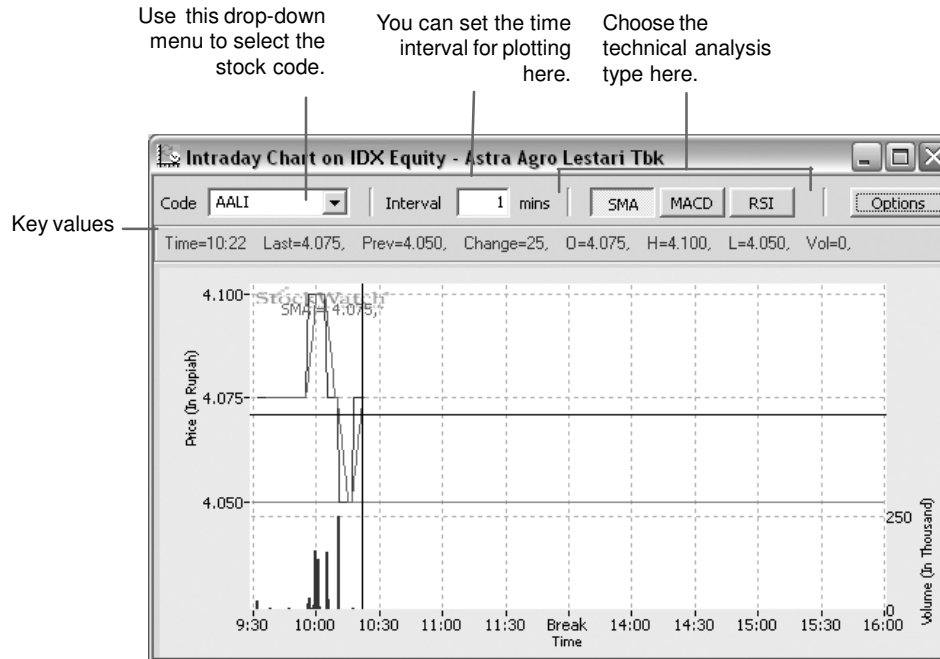
Foreign Activity



Information Contained

Foreign Activity shows the foreign activity's net transaction during a period (up to three-month data) on a graph. The net transaction reflects the difference between **Buy** (green line) and **Sell** (red line) transactions performed by the foreign investors. The meaning of net volume or net value is the difference between total buy transaction and total sell transaction performed by foreign investors.

Intraday Chart



MarketInfo
Viewers

Information Contained

This viewer plots an individual stock/currency/stock options price's movement during the day on a line chart on minute movement basis.

You can also view the yesterday's closing price straight-line whose color is red. The purpose is in order that you can view the price movement against yesterday's closing price.

Intraday Chart also has three technical analyses, which are:

1. Simple Moving Average (**SMA**),
2. Moving Average Convergence/Divergence (**MACD**), and
3. Relative Strength Index (**RSI**).

If there is no technical analysis chosen, Intraday Chart will display traded volume at every minute. Key Values at the top of the chart are displayed following the crosshair line, which enables you to see every minute's values. The key values are:

Last Price, Change, Open, High, Low, Volume.

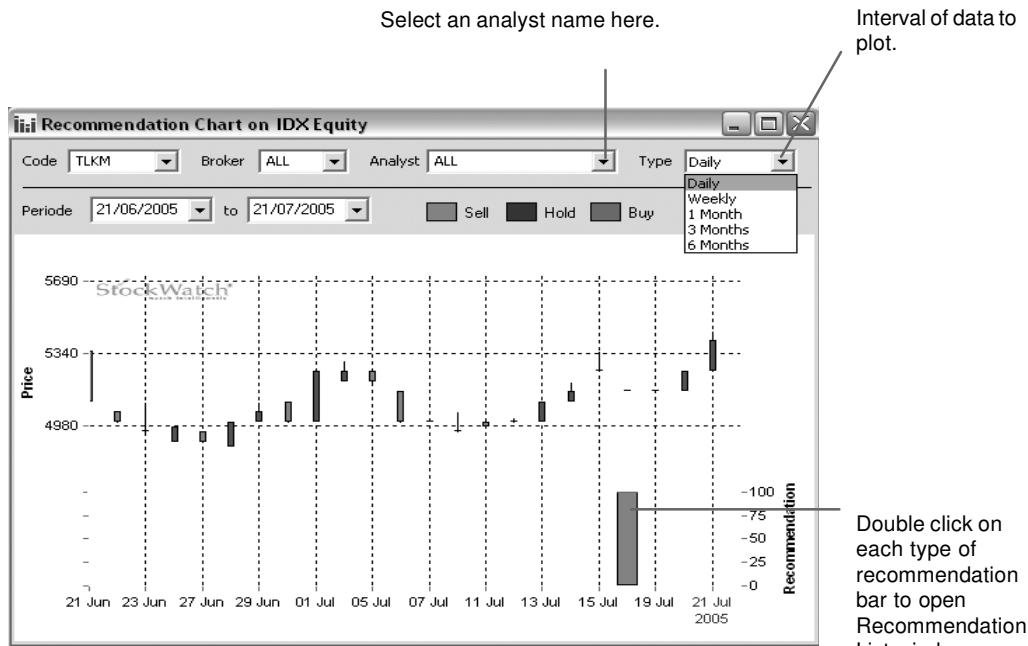
To show IDX Options intraday chart in this viewer:

- Change the market to IDX Options by right-clicking on the viewer title bar.

Next, type in the option code in the Code column.

For Stock Options, Intraday chart will display the chart of stock options' last price and the underlying's WMA (minute movement basis) in one chart viewer.

Recommendation Chart



**General
Chart**

Information Contained

This viewer shows all recommendations (daily, weekly, 1 month, 3 months, or 6 months) given by brokers or analysts for a selected stock.

The chart section is divided into two sections, the uppermost section displays stock price charts in a candle stick format.

- The candle stick color will be green if today closing price is higher than today opening price.
- The candle stick color will be red if today closing price is lower than today opening price.

The lowermost section displays recommendation bar charts.

Buy recommendations are displayed as green vertical bars, while sell recommendations are displayed as red vertical bars. Hold recommendations are displayed as blue vertical bars. The recommendation is displayed in its percentage.

Users can also double click on each bar to view the details or list of recommendation given in the series.

The following is Recommendation List window.



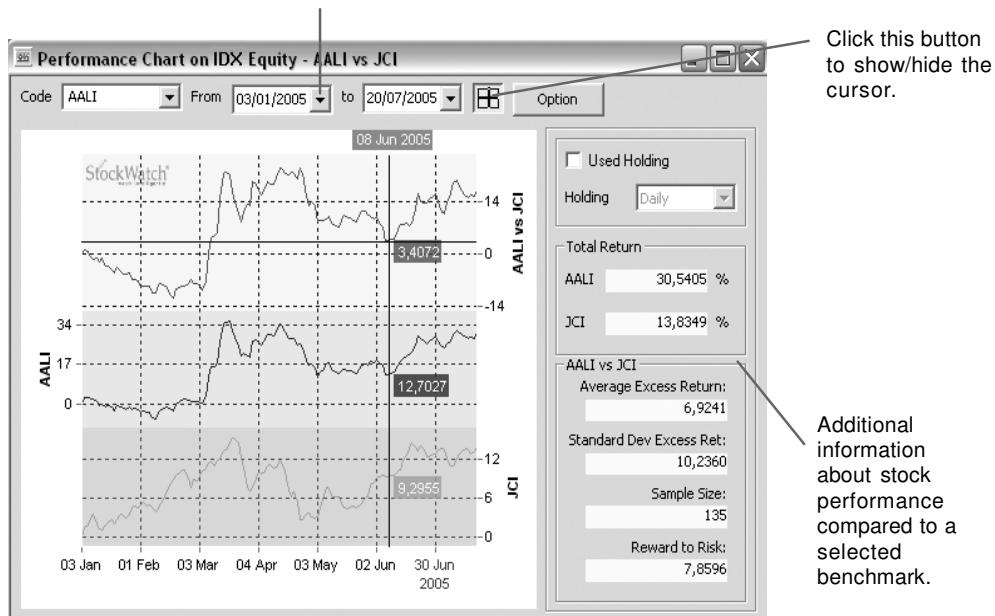
ID	Analyst	Rec	Previous	Price	From	To
II	Jonathan Obadiel	Buy	Hold	N/A	31/05/2004	31/05/2004

- Copy All
- Detail Rec
- Analyst Info
- Individual Broker
- Universal Links

MarketInfo
Viewers

Performance Charts

Holding Period is time interval for measuring the return, it can be Daily, Weekly, Monthly, or Yearly.



General
Chart

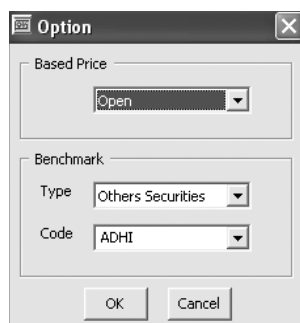
Information Contained

This viewer enables you to display a stock performance compared to a selected benchmark (the Indonesia Composite Index or a different stock performance).

This viewer consists of:

- The first chart (the uppermost chart) is a stock performance compared to a selected benchmark.
- The second chart in the middle of the viewer is the selected stock performance chart.
- The last chart (the lowermost chart) is a performance chart of the selected benchmark (the benchmark type can be selected by clicking the Option button).

The following is the Option window of the Performance Chart viewer:



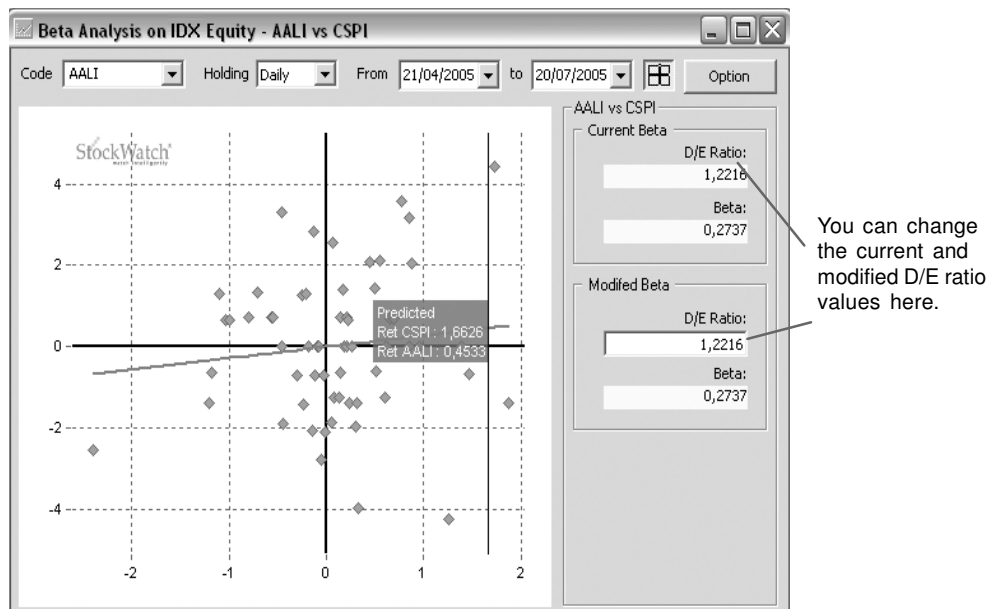
Base Price is the price parameter used by the application to calculate the return.

The available price parameters are:

- Open Price (O)
- High Price (H)
- Low Price (L)
- Close Price (C)
- Typical Price $(H+L+C)/3$

The benchmark type can be selected in the Index and Code text boxes. You can select either an Index or a stock code as a benchmark type.

Beta Analysis



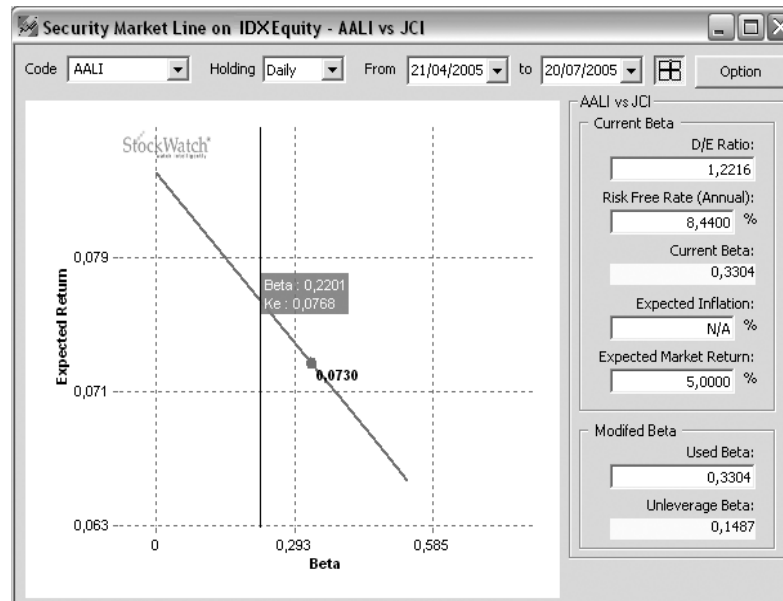
General
Chart

Information Contained

This viewer is used to display a line chart which shows a selected stock performance and Index/another stock performance as a benchmark.

Other information are D/E Ratio value of the selected equity, Beta value , Modified Beta.

Security Market Line



MarketInfo
Viewers

Information Contained

This viewer is used to show a chart displaying the relationship between the Beta and Expected Return values of a selected stock compared against the Indonesia Composite Index.

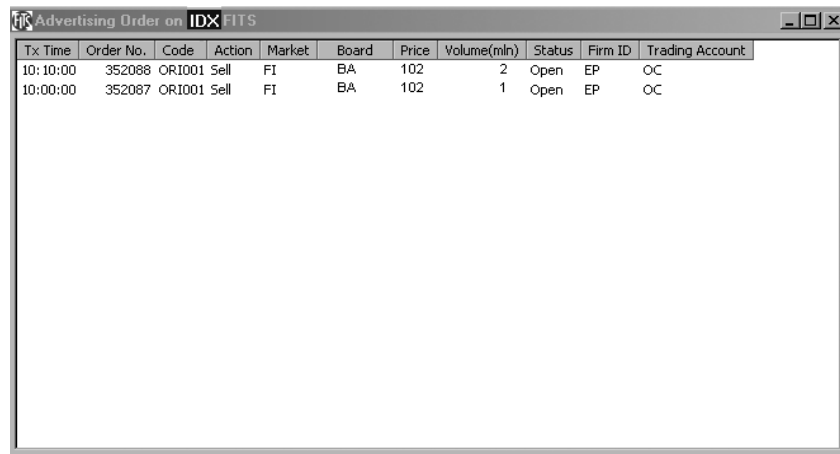
If you change risk free rate (annual), current beta, expected inflation, expected market return or used beta value then a new chart will be shown.

FIXED INCOME INQUIRY

The Fixed Income Inquiry section contains general and comprehensive Fixed Income information on the IDX market.

Fixed Income
Inquiry

IDX FITS Advertising Order



The screenshot shows a window titled "Advertising Order on IDX FITS". Inside the window is a table with the following data:

Tx Time	Order No.	Code	Action	Market	Board	Price	Volume(mln)	Status	Firm ID	Trading Account
10:10:00	352088	ORI001	Sell	FI	BA	102	2	Open	EP	OC
10:00:00	352087	ORI001	Sell	FI	BA	102	1	Open	EP	OC

Information Contained

This viewer shows advertisement orders of the IDX's FITS.

MarketInfo
Viewers

Running Trade

Running Trade on IDX FITS											
TX Time	Code	Last	Vol (Min)	+/-	Buyer	Seller	Tenor	Reporate	Board	Type	
15:57:35	ORI001	101.350	8	0.0000	--	--	0	0	FR-Fits	Government	
15:57:35	ORI001	101.350	2	0.0000	--	--	0	0	FR-Fits	Government	
14:54:14	ORI001	101.350	1	0.0000	--	--	0	0	FR-Fits	Government	
09:44:22	ORI001	101.350	1	0.0000	--	--	0	0	FR-Fits	Government	

Information Contained

This viewer displays all transactions on the market live on one screen. Every transaction performed on all boards will appear on this viewer, and the latest trade record appears at the top of the viewer.

Color Code

The data on this viewer is displayed using a color-coded format as follows: **Red**: The stock price is declining as compared to its previous' closing price. **Green**: The stock price is advancing as compared to its previous' closing price. **Black**: The stock price remains unchanged as compared to its previous' closing price. If the background color is set black, this black color becomes **white**.

Fixed Income
Inquiry

Buy Sell Queue

Buy		Sell	
Price	Total Vol (min)	Price	Total Vol (min)
101	2	102	2
100	2		
99	2		
Total 6		Total 2	

MarketInfo
Viewers

Information Contained

Buy/Sell Queue displays the buy and sell queue for an individual stock. The **Buy** section sorts the stocks from the highest bid price, while the **Sell** section sorts them from the lowest offer price. Both **Buy** and **Sell** sections are updated continuously during trading hours.

Fixed Income Information

Select the fixed income code from the drop-down menu.

Fixed Income Information on IDX Equity

FR0002 Obligasi Pem. Mei 1999 Seri FR0002 ☐ Corporate ☒ Government

General

ISIN	IDG000000506	Trustee	N/A
Type	Fixed	Rating	n/a
Collateral Type	Tot Asset due to Civil Law 1131 & 1116 Day Count Basis 1		

Coupon

Coupon	14%	First Payment	n/a
Total Coupon	20	Last Payment	15 Jun 2009
Current Rate	14%	Payment date	15 Jun 2003
Coupon Number	8	Start	15 Dec 2002
Coupon Period	Semi-Annually	End	14 Jun 2003

Amount (mn)	Issue Date	Listing Date	Maturity Date	Callable Date	Putable Date
1.00	28 May 1999	1 Feb 2000	15 Jun 2009	n/a	n/a

Fixed Income Inquiry

Information Contained

Fixed Income Information provides all general information of fixed income such as fixed income types, coupon, payment schedule, rating (Pefindo Rating and DCR Rating) and other relevant information. **Indonesian government fixed income** information also can be found here.

Fixed Income Summary



Code	Full Name	Currency	Rating	Maturity	Coupon	Be
AALI-01XX-BF	Astra Agro Lestari I Tahun 2000	IDR	idA+	15 Mar 2005	0	
ADHI02XXBFTW	Adhi Karya II Tahun 2003	IDR	idBBB	10 Jun 2008	0	
ADHI03	Adhi Karya III Tahun 2004	IDR	id BBB	13 Jul 2007	0	
ADMF01AXBFTW	Adira Dinamika M.F. I Th. 2003 Seri A	IDR	idA-	06 May 2008	0	
ADMF01BXXBFTW	Adira Dinamika M.F. I Th. 2003 Seri B	IDR	idA-	06 May 2008	0	
ALFA01XXBFTW	Alfa I Tahun 2003	IDR	idA-	16 Jul 2008	0	
APOL01XXBFTW	Arperi Pratama Ocean Line I Th. 2003	IDR	idA-	02 Oct 2008	0	
ASDF02XXBFTW	Astra Sedaya Finance II Tahun 2002	IDR	idAA-	24 May 2005	0	
ASDF03BXXBFTW	Astra Sedaya Fin. III Amortisasi Th. 2003 Seri B	IDR	idAA-	20 May 2005	0	
ASDF03CXXBFTW	Astra Sedaya Fin. III Amortisasi Th. 2003 Seri C	IDR	idAA-	20 May 2007	0	
ASDF04A1	Astra Sedaya Finance IV Amortisasi Tahun 2004 Seri	IDR	id AA-	29 Mar 2005	0	
ASDF04A2	Astra Sedaya Finance IV Amortisasi Tahun 2004 Seri	IDR	id AA-	24 Jun 2005	0	

Information Contained

This viewer displays the summary of fixed incomes traded on Indonesia Stock Exchange. In this viewer information of the fixed income maturity date and the rating of the issuer company is also provided.

Sorting Content

You can sort the content of this viewer to be based on any of the columns available. To sort the content, click the column heading.

Fixed Income Quote

Code	Full Name	Last Price	+/-	+/-%	YTM	Yield +/-	1M Yield +
PIDL-01XX-BF	Pindo Deli I Tahun 1997	99	99	0	0	n/a	n/a
PPLN-06BX-BV	PLN VI Tahun 1997 Seri I	94	94	0	0	n/a	n/a

Click on the **Code** section,
then enter the fixed income
code to view.

Information Contained

Similar to the Fixed Income Summary viewer, the Fixed Income Quote is a table showing fixed income's summary, except that this viewer displays only the fixed incomes that you type.

How to Operate

To input the fixed income code, click on the **Code** section. Type the fixed income code and press **<ENTER>**.

Deleting Fixed Income Code

To clear a fixed income code which is already typed, under column **Code**, click on the fixed income code. Click **<DEL>** button on keyboard. A message window will be displayed. Click **Yes** to confirm deleting.

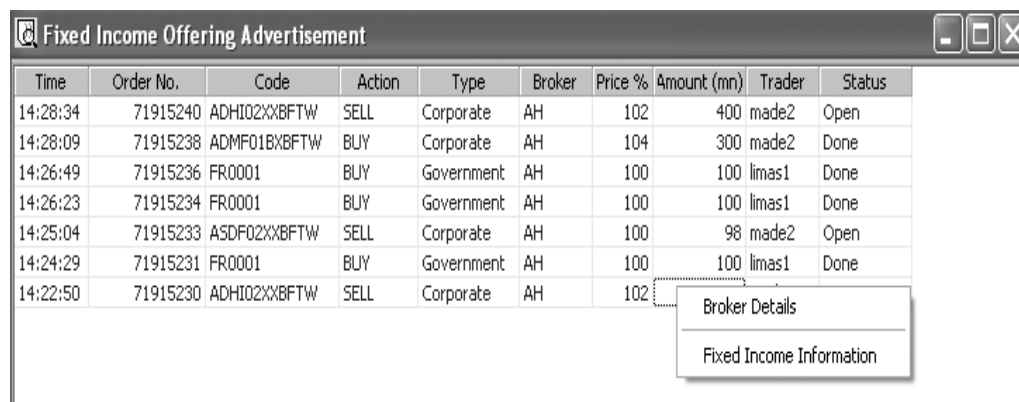
Saving and Loading Quotation

To save your time from typing your monitored fixed incomes repeatedly, this viewer is provided with the ability to save and load your quotation. To save the quotation, right-click within the viewer and select **Save Quote**. Type the quotation name in the provided box and click **OK**.

To load the saved quotation, just select **Load Quote** from the menu, choose the quotation to load.

Fixed Income
Inquiry

Fixed Income Offering Advertisement



Time	Order No.	Code	Action	Type	Broker	Price %	Amount (mn)	Trader	Status
14:28:34	71915240	ADHI02XXBFTW	SELL	Corporate	AH	102	400	made2	Open
14:28:09	71915238	ADMF01BXBFTW	BUY	Corporate	AH	104	300	made2	Done
14:26:49	71915236	FR0001	BUY	Government	AH	100	100	limas1	Done
14:26:23	71915234	FR0001	BUY	Government	AH	100	100	limas1	Done
14:25:04	71915233	ASDF02XXBFTW	SELL	Corporate	AH	100	98	made2	Open
14:24:29	71915231	FR0001	BUY	Government	AH	100	100	limas1	Done
14:22:50	71915230	ADHI02XXBFTW	SELL	Corporate	AH	102			

Broker Details

Fixed Income Information

Information Contained

This viewer shows all bid and sell offerings sent by MarketInfo Fixed Income users for the current trading day.

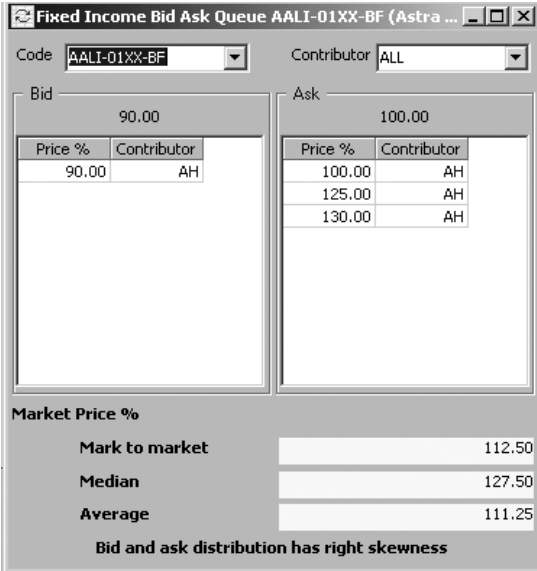
The status of the offering is also displayed in the Status column.

To show the fixed income offering advertisement details, right click on the offering, a pop up window will appear, select one of the available menus.

>> To place an order you can install MarketInfo Fixed Income features on your MarketInfo. MarketInfo Fixed Income features enable you to submit bid/ask fixed income offerings which will be disseminated to other MarketInfo users. You can also close the offerings using MarketInfo Fixed Income features.

MarketInfo
Viewers

Fixed Income Bid and Ask Queue



Fixed Income Inquiry

Information Contained

This viewer shows bid and sell queue offerings sent by MarketInfo Fixed Income contributors for the current trading day.

The market price value is obtained from the following formula:

$$\text{Market Price} = \frac{\sum \text{Prices between highest and lowest prices}}{\text{Number of prices between highest and lowest prices}}$$

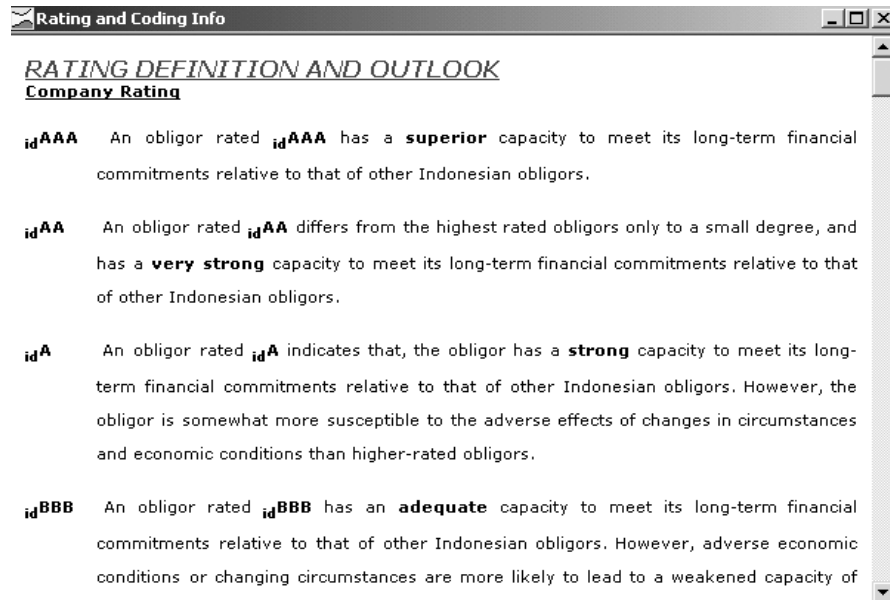
Median displays a median value in a set of bid and ask price data.

Average displays an average price of the bid and ask data.

The last label displays the bid and ask price distribution characteristic. (It can be right or left skewness or distributed normally).

Rating and Coding Info

MarketInfo
Viewers



The screenshot shows a window titled "Rating and Coding Info" with a scrollable content area. The content area displays the following text:

RATING DEFINITION AND OUTLOOK
Company Rating

idAAA An obligor rated **idAAA** has a **superior** capacity to meet its long-term financial commitments relative to that of other Indonesian obligors.

idAA An obligor rated **idAA** differs from the highest rated obligors only to a small degree, and has a **very strong** capacity to meet its long-term financial commitments relative to that of other Indonesian obligors.

idA An obligor rated **idA** indicates that, the obligor has a **strong** capacity to meet its long-term financial commitments relative to that of other Indonesian obligors. However, the obligor is somewhat more susceptible to the adverse effects of changes in circumstances and economic conditions than higher-rated obligors.

idBBB An obligor rated **idBBB** has an **adequate** capacity to meet its long-term financial commitments relative to that of other Indonesian obligors. However, adverse economic conditions or changing circumstances are more likely to lead to a weakened capacity of

Information Contained

This viewer shows fixed income rating and coding info from PT. PEFINDO Credit Rating Indonesia and PT. Kasnic Duff & Phelps Credit Rating Indonesia.

IDX OCP Info

Information Contained

This viewer enables you to see government bond information from the SSX's OCP. Besides that the government bond price and coupon rate movement can also depicted as charts in this viewer.



The screenshot shows the 'IDX OCP Bond Info' window. At the top, there is a date selector set to '12/12/2005' and a tab labeled 'Price & Coupon Rate Chart'. Below this is a table with the following columns: Bond Code, Bond Name, Coupon Rate (%), Maturity Date, OCP, and Prev OCP. The table lists 18 bonds, all of which are 'Obligasi Pem. Th. 2002 Seri'.

Bond Code	Bond Name	Coupon Rate (%)	Maturity Date	OCP	Prev OCP
FR0002	Obligasi Pem. Mei 1999 Seri FR0002	0	15/06/2009	102.16	101.93
FR0004	Obligasi Pem. Mei 1999 Seri FR0004	11.5	15/02/2006	99.78	99.90
FR0005	Obligasi Pem. Mei 1999 Seri FR0005	14.5	15/07/2007	98.62	98.26
FR0010	Obligasi Pem. Th. 2002 Seri FR0010	0	15/03/2010	99.75	99.50
FR0011	Obligasi Pem. Th. 2002 Seri FR0011	13	15/05/2010	100.36	99.51
FR0012	Obligasi Pem. Th. 2002 Seri FR0012	10	15/05/2010	97.03	97.03
FR0013	Obligasi Pem. Th. 2002 Seri FR0013	12	15/09/2010	106.63	105.83
FR0014	Obligasi Pem. Th. 2002 Seri FR0014	11.25	15/11/2010	107.27	106.53
FR0015	Obligasi Pem. Th. 2002 Seri FR0015	8.375	15/02/2011	99.46	98.83
FR0016	Obligasi Pem. Th. 2002 Seri FR0016	16.5	15/08/2011	99.61	99.23
FR0017	Obligasi Pem. Th. 2002 Seri FR0017	11.75	15/01/2012	97.87	97.60
FR0018	Obligasi Pem. Th. 2002 Seri FR0018	10.75	15/07/2012	97.77	97.49

Click here to open Price and Coupon Rate Chart viewer for the selected bond.

The government bond price and coupon rate movement chart:

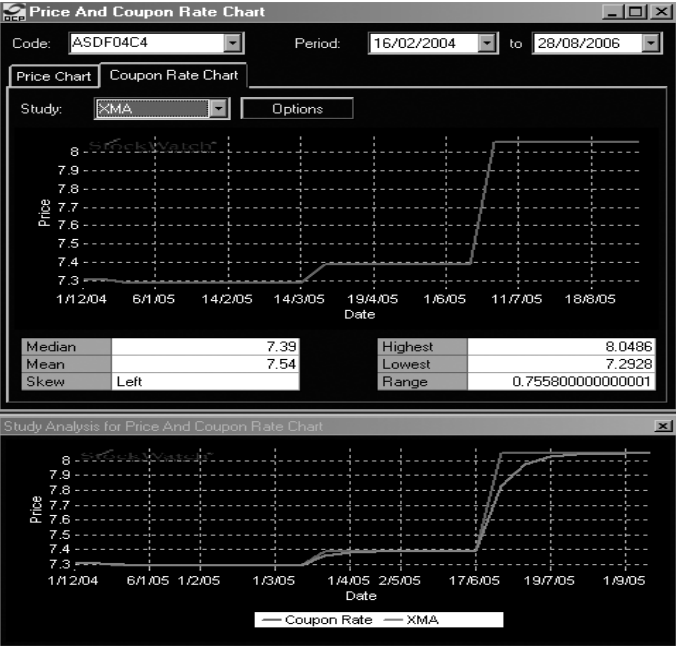
Select the statistical analysis here. The available analysis are SMA (simple moving average), WMA and XMA.

Click this button to open all available options for the selected analysis.

Chart results are shown here.



Coupon rate movement chart:



MarketInfo
Viewers

IDX Corporate Info

Information Contained

This viewer shows closing price of corporate bonds published by the IDX.

IDX Corporate Bond Info											
Published Date		20/12/2005									
Bond Code	Bond Name	Coupon Rate (%)	Coupon Type	Maturity Date	WAP 7	WAP 14	WAP 30	Best Bid	Current Rating	Last Rating	
ADHIQ2X/BFTW	Adhi Karya II Tahun 2003	0.00	Fixed	10/06/2008	95.175	95.175	95.175	0	idBBB+	idBBB	
ADHIQ3	Adhi Karya III Tahun 2004	0.00	Fixed	13/07/2007	0	0	0	0	idBBB+	idBBB	
ADMF01A/BFTW	Adira Dinamika M.F. I Th. 2003 Seri A	0.00	Fixed	06/05/2008	0	0	0	0	idA-	idA-	
ADMF01B/BFTW	Adira Dinamika M.F. I Th. 2003 Seri B	0.00	Fixed	06/05/2008	0	0	0	0	idA-	idA-	
ALFA01X/BFTW	Alfa I Tahun 2003	0.00	Fixed	16/07/2008	0	0	0	0	idA-	idA-	
APEX01B	Apexindo Pratama Duta I Syiah Ijarah Tahun 2005	0.00	Fixed	08/04/2010	0	81.75	81.375	0	idA-(Sy)		
APEX01A	Apexindo Pratama Duta I Tahun 2005	0.00	Fixed	08/04/2010	0	0	0	0	idA-		
APOL01X/BFTW	Arperni Pratama Ocean Line I Th. 2003	0.00	Fixed	02/10/2008	87.25	87.25	89.667	0	idA-	idA-	
ASGR01X/BFTW	Astra Graphia I Tahun 2003	0.00	Fixed	27/10/2008	0	0	91.95	0	idA-	idA-	
ASDF03C/BFTW	Astra Sedaya Fin. III Amortisasi Th. 2003 Seri C	0.00	Fixed	20/05/2007	0	95.688	95.688	0	idAA-	idAA-	
ASDF04B	Astra Sedaya Finance IV Amortisasi Tahun 2004 Seri B	0.00	Fixed	24/03/2006	0	0	0	0	idAA-	idAA-	
ASDF04C1	Astra Sedaya Finance IV Amortisasi Tahun 2004 Seri C1	0.00	Fixed	24/06/2006	0	0	0	0	idAA-	idAA-	

Fixed Income
Inquiry

OTC Trade Reporting

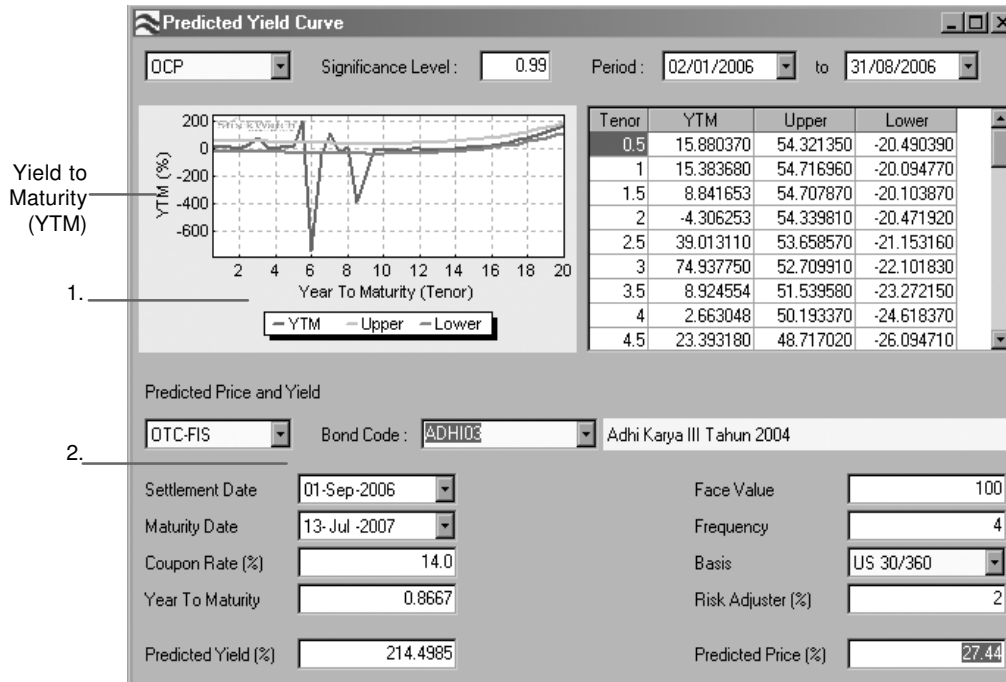
Information Contained

This viewer shows all reported Over the Counter (OTC) trade transactions of Fixed Income at the IDX.

MarketInfo
Viewers

IDX OTC-FIS Trade Reporting									
Tx Time	Code	Last	Vol.(Mn)	+/-	Trade Date	Buyer	Seller	Type	
16:47:00	PPLN08A	101.8000	5,000	0.0000	--	--	--	Corporate	
16:47:00	GBRB-FR0005X	100.7000	3,000	0.0000	--	--	--	--	
16:43:00	PPLN08A	102.1800	5,000	0.0000	--	--	--	Corporate	
16:43:00	PPLN08A	102.1500	5,000	0.0000	--	--	--	Corporate	
16:34:00	FR0033	103.6700	10,000	0.0000	--	--	--	Government	
16:34:00	GBRB0010MyBV	100.0400	2,500	0.0000	--	--	--	--	
16:34:00	GBRB-FR0005X	100.7500	20,000	0.0000	--	--	--	--	
16:34:00	GBRB0010NvBF	104.8500	1,000	0.0000	--	--	--	n/a	
16:34:00	ASDF06E	98.5750	1,000	0.0000	--	--	--	Corporate	
16:34:00	ASDF06E	98.5750	1,000	0.0000	--	--	--	Corporate	
16:34:00	ASDF06E	98.5750	4,000	0.0000	--	--	--	Corporate	
16:34:00	ASDF06F	98.0250	3,000	0.0000	--	--	--	Corporate	
16:34:00	GBRB0010MyBV	100.1700	5,000	0.0000	--	--	--	--	
16:34:00	GBRB0010MyBV	100.1700	7,000	0.0000	--	--	--	--	
16:34:00	GBRB0010MyBV	100.1700	1,000	0.0000	--	--	--	--	
16:34:00	FIFA05E	96.2200	1,000	0.0000	--	--	--	n/a	
16:34:00	FIFA05E	96.2200	2,000	0.0000	--	--	--	n/a	
16:34:00	OTMA04C	95.8200	10,000	0.0000	--	--	--	Corporate	
Volume(Mn) :			129,285,000,000	Value(Bn) :		12,950,684.5099	Frequency :		33

Predicted Yield Curve



Fixed Income
Inquiry

1. Yield Curve Benchmark Area

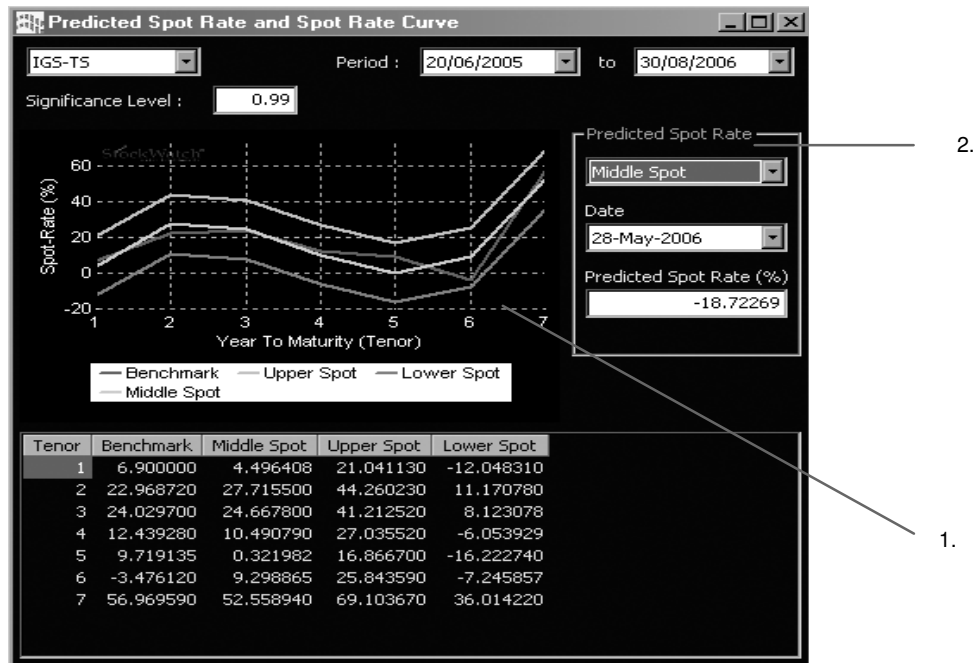
This area shows a yield curve that can be used as a benchmark to predict bond price and yield. You can select the data/market source (IDX OCP/OTC FIS/ IGS TS/ FITS) as the benchmark.

2. Predicted Price and Yield Area

This is area where you can do the prediction of bond's price and yield. You need to select the bond code here by selecting the market and then the bond code in the Bond Code column. Next, see the following table:

Settlement date	Today date (default). You can change it.
Maturity date	You can change it.
Coupon rate (%)	You can change it.
Years to Maturity	It shows the years to maturity of the selected bond.
Face Value	Bond face value which is the same as redemption value (PAR). You can change it.
Frequency	How many times in a year the coupon are given. You can change it.
Basis	The method to count days in a year. You can change it.
Risk Adjuster (%)	You can change it.
Predicted Yield (%)	You can change it.
Predicted Price (%)	You can change it.

Predicted Spot Rate And Spot Rate Curve



Fixed Income
Inquiry

1. Spot Rate Curve

This area shows a spot rate curve that can be used as a benchmark in predicting a spot rate value for a given date.

You need to select the market as a benchmark, benchmark period, and a significance level value.

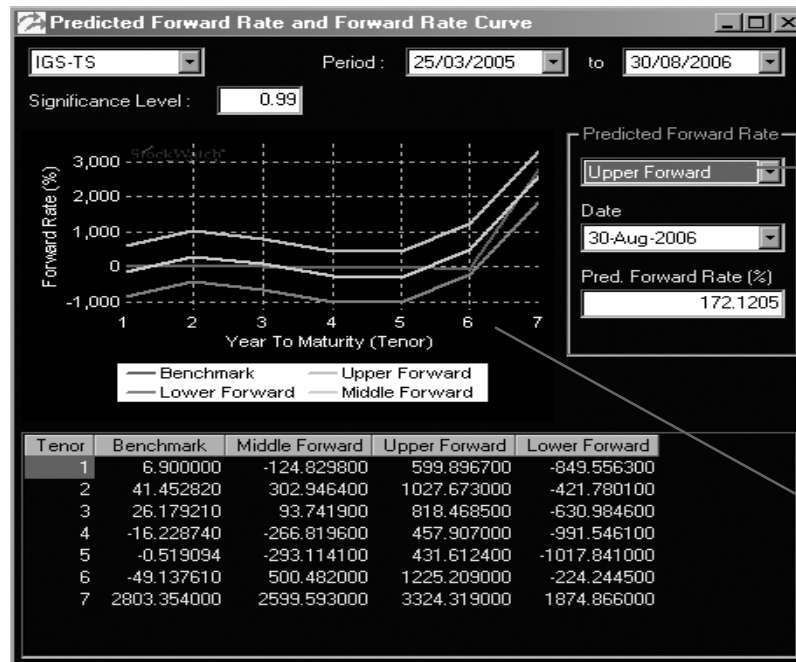
2. Predicted Spot Rate Area

Predicted Spot Rate area is an area where you can predict a spot rate for a given date by using a selected spot benchmark method. The available methods are predicted spot rate based on benchmark, middle predicted spot rate, upper predicted spot rate, and lower predicted spot rate.

To predict:

- Select benchmark method.
- Select the date when a spot value will be predicted.
- Prediction results will be shown at the Predicted Spot Rate section.

Predicted Forward Rate And Forward Rate Curve



MarketInfo
Viewers

1. Forward Rate Curve

This area shows a forward rate curve that can be used as a benchmark in predicting a forward rate value for a given date.

You need to select the market as a benchmark, benchmark period, and a significance level value.

2. Predicted Forward Rate Area

Predicted Forward Rate area is an area where you can predict a Forward Rate for a given date by using a selected Forward Rate benchmark method. The available methods are upper forward, middle forward, lower forward, based on benchmark.

To predict:

- Select benchmark method.
- Select the date when a Forward Rate will be predicted.
- Prediction results will be shown at the Predicted Forward Rate section.

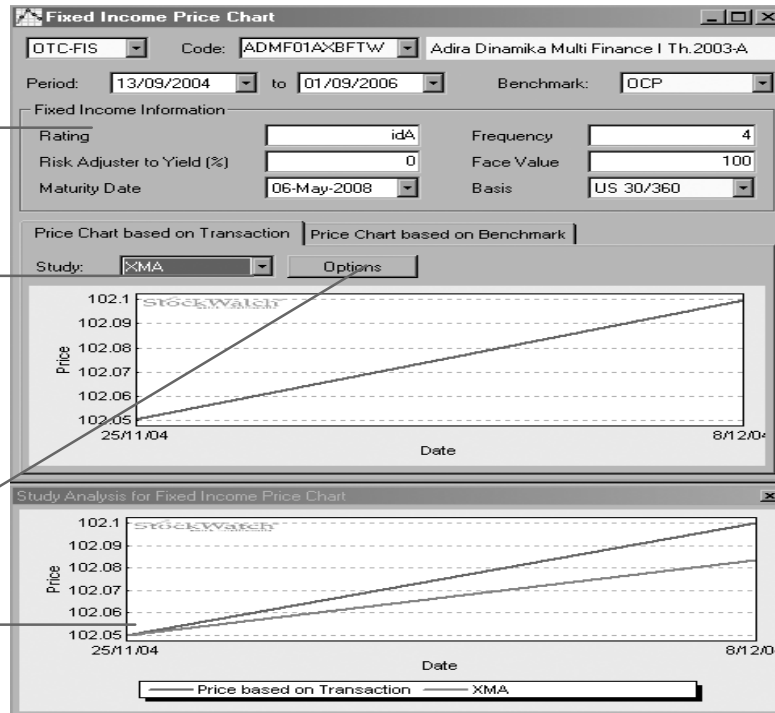
Fixed Income Price Chart

Detailed information of the selected bond code.

Select the statistical analysis here. The available analysis are: SMA (simple moving average) , WMA, XMA,RSI, MACD, Bollinger.

Click this button to open all available options for the selected analysis.

Chart results are shown here.



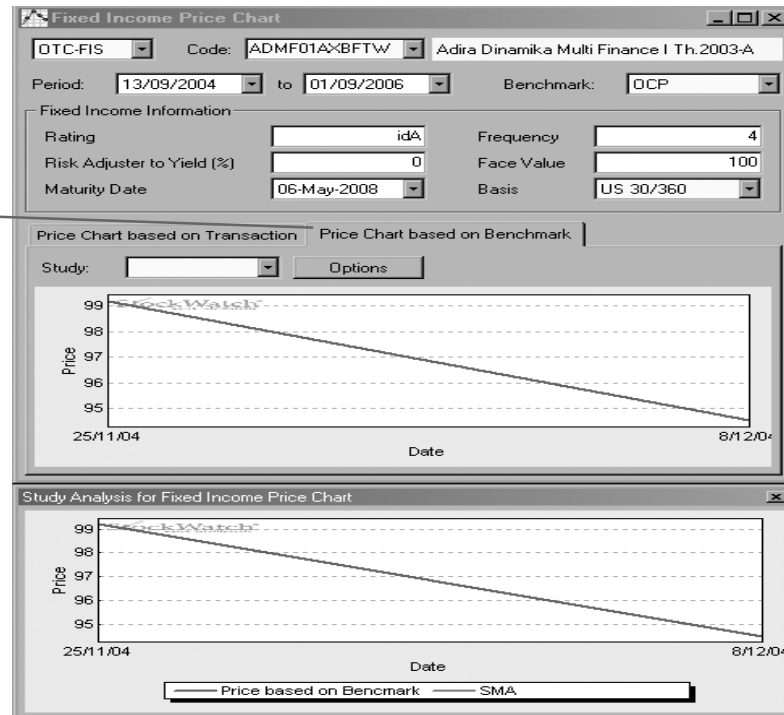
Fixed Income Inquiry

This viewer shows charts of bond price based on bond transactions or benchmark. The benchmark data is the SSX's OCP data.

How to use

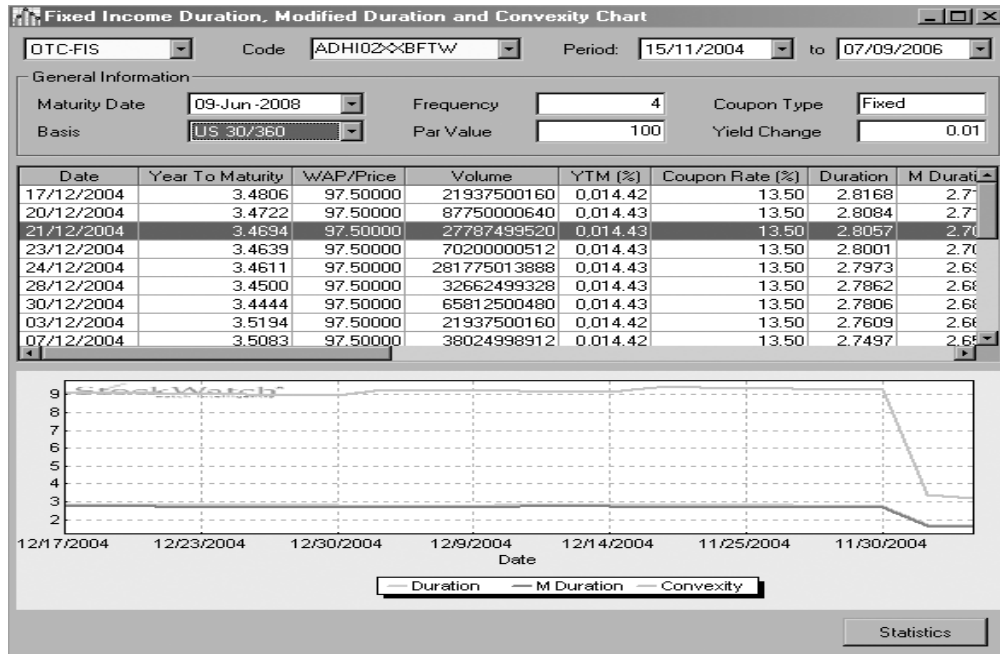
- Select the market where the bond is traded and then select the bond code.
- In the Benchmark selection box, select the market used as a benchmark.
- Next, select the time period for generating the Price Chart.
- The result will be displayed in the Price Chart section.

Click this tab to show the price chart based on the benchmark.



Duration, MDuration and Convexity Chart

The Duration, Modified Duration and Convexity Chart viewer enables you to see the risk level of a selected bond.

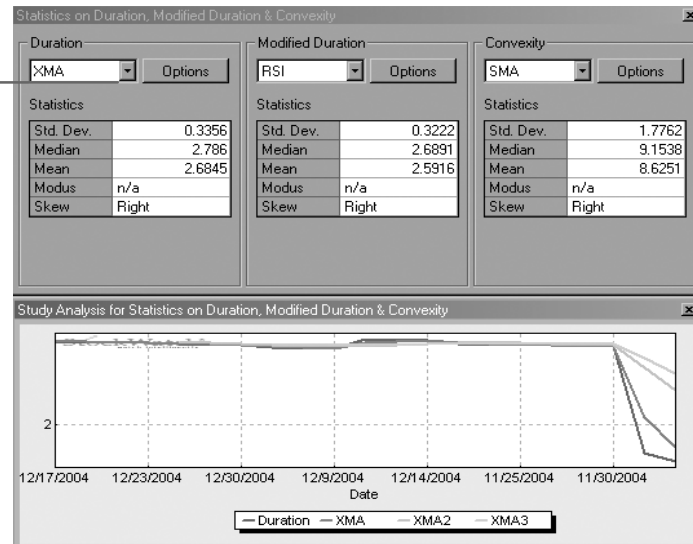


Fixed Income
Inquiry

How to use

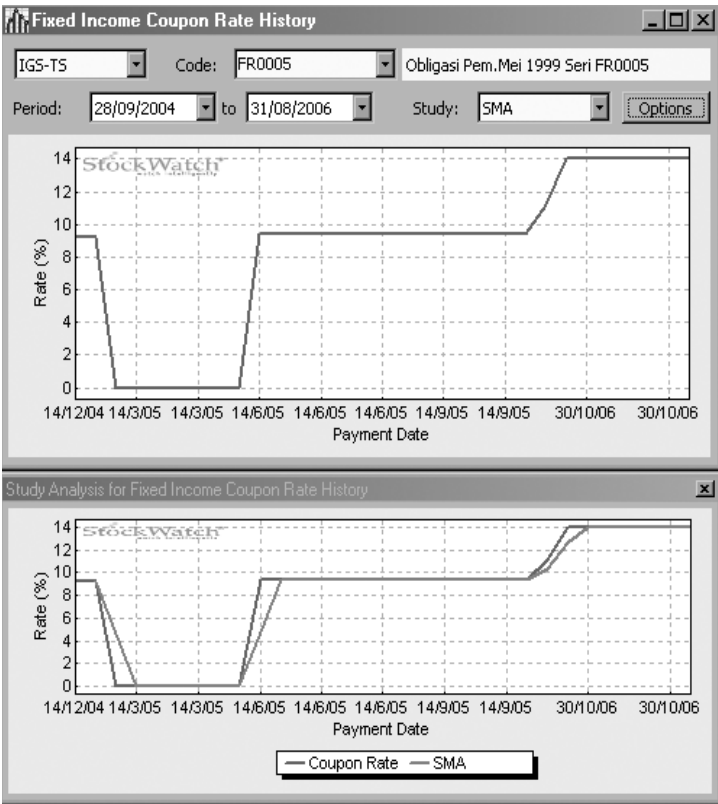
- Select the market where the bond is traded and then select the bond code.
- Next, select the time period in the Period input box.
- The result will be displayed in the lower most section.
- To display statistical data of the Duration, Modified Duration and Convexity in a separate window click the Statistics button.

Select the statistical analysis here. The available analysis are: SMA (simple moving average) , WMA, XMA,RSI, Bollinger.



**MarketInfo
Viewers**

Coupon Rate History

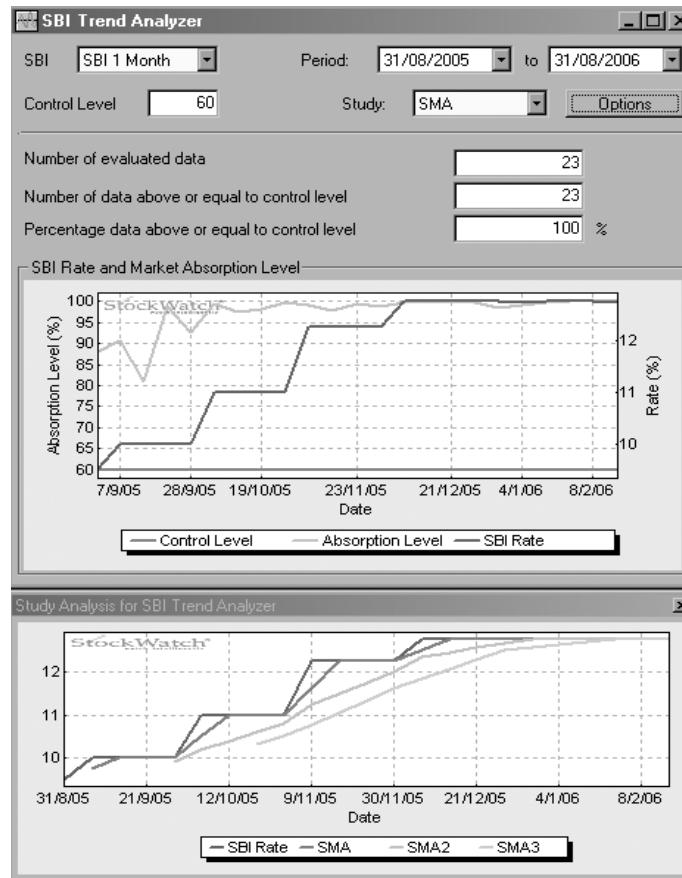


Coupon Rate History shows the chart of coupon rate movement within the specified time period. The chart displays the coupon rate at the payment date. Moving average analysis is also provided.

Fixed Income Inquiry

SBI Trend Analyzer

MarketInfo
Viewers



SBI Trend Analyzer viewer enables you to view bond's price and yield. You can see the current SBI trend using this viewer.

How to use

- In SBI, select SBI data type to analyze. There are 2 choices: SBI 1 month and SBI 3 months.
- In the Period selection box, select the analysis period.
- In Control Level type in the percentage of SBI market absorption.
- If needed, select the statistic analysis (MACD,SMA, WMA, XMA, RSI , Bollinger)

Immunization

Immunization			
Market	OTC_FIS	OTC_FIS	OTC_FIS
Bond code	FR0019	FR0022	FR0014
Settlement date	07-Sep-2006	07-Sep-2006	07-Sep-2006
Maturity date	15-Jun-2013	15-Sep-2011	15-Nov-2010
Coupon rate	0.12000	0.10000	0.10000
Frequency	4	4	4
Basis	0	0	0
Price based on market source	100.00000	90.00000	90.00000
Price based on benchmark	77.25890	92.11175	89.85363
Custom price	50	100	100
Year to maturity	6.77222	5.02222	4.18889
Yield to maturity			
YTM based on market source	0.11999	0.12724	0.13140
YTM based on benchmark	0.17852	0.12119	0.13189
YTM based on custom price	0.29098	0.09999	0.09998
Duration			
Duration based on market source	4.60402	3.84608	3.40408
Duration based on benchmark	4.26126	3.86266	3.40330
Duration based on custom price	3.57958	3.91953	3.45266
MDuration			
MDuration based on market source	4.46994	3.72751	3.29581
MDuration based on benchmark	4.07921	3.74908	3.29467
MDuration based on custom price	3.33683	3.82394	3.36847
Used price	Custom	Custom	Custom
Used duration	3.57958	Custom	3.45266
Used yield	0.29098	Benchmark	0.09998
Bond code	FR0019	Market Source	FR0014
Weight	0.35161	0.64839	0.00000
Portfolio duration and yield Current Max. Allowed Targetted			
Yield	0.16714	0.29098	0.2
Duration	3.80000	3.91953	3.8
MDuration	3.65267		
Reset Data Duration Match			

Immunization viewer enables you to select the best fixed income portfolio for you. The benchmark data used by the viewer is based on yesterday OCP data.

How to use

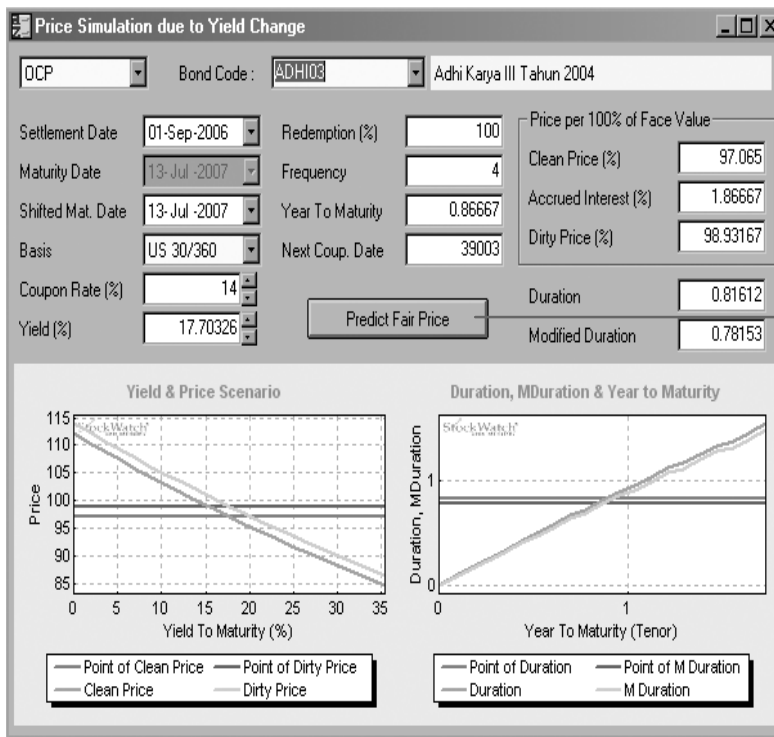
- In the Market selection box, select the market where the bond is traded.
- Select bond code in the Bond Code input box.
- Input custom price in the Custom Price input box.
- In Used Price, there are 3 choices, which are: Custom, Benchmark, Market Source. Select one of them.
- Repeat those steps for other bond codes you want to analyze.
- In Targeted Yield section, input Targeted Yield value.
- In Targeted Duration section, input Targeted Duration value.
- Click on the Duration Match button to find the best fixed income portfolio.

Fixed Income
Inquiry

- The result will be shown in Current Yield, Current Duration, Current MDuration and Weight.
- After the calculation is finished, you can select the highest bond's Weight value as this bond is the best bond among other bonds being analyzed.

MarketInfo
Viewers

Price Simulation due to Yield Change



Click here to open Predicted Yield Curve viewer for the selected bond.

This viewer enables you to do price simulation of a bond by entering yield as the required parameter. The result will be displayed as text and chart.

How to use

After selecting a bond code, you can change the default Settlement Date, Shifted Maturity Date, Basis, Yield, Coupon Rate, Redemption if needed. The result will be displayed in:

- Price per 100% of face value
- Duration
- MDuration
- Chart section

Fixed Income Inquiry

Predicted Price

Predicted Bond Price

1. OCP Significance Level : 0.99 Period : 30/04/2006 to 31/08/2006

2. Bond Information

OTC-FIS Bond Code : ADHI03 Adhi Karya III Tahun 2004

Settlement Date 01-Sep-2006 PAR 100 Number of Coup. Left 4

Maturity Date 13-Jul-2007 Year To Maturity 0.86667 Next Coup. Date 39003

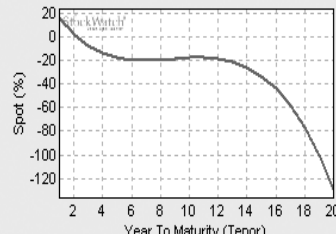
Basis US 30/360 Days in Coup. Period (b) 90 Last Coup. Date 38911

Frequency 4 Days from Last Coup. to Set. 48 Ratio (a/b) 0.46667

Coupon Rate (%) 0.14 Days to Next Coup. (a) 42 Accrued 0.00019

3. Fair Value Spot Approach Fair Value Yield Approach

Moderate Spot



Tenor	Spot (%)
1	15.880190
2	2.473912
3	-7.295178
4	-13.955770
5	-18.036560
6	-20.066220
7	-20.573440
8	-20.086920
9	-19.135340
10	-18.247380
11	-17.951730
12	-18.777070

Fair Value: 967.73 % YTM: 385.27 %

Fair Value To Call: 967.73 % YTM To Call: 385.27 %

MarketInfo
Viewers

The Predicted Price viewer enables you to predict price of your bond.

1. Benchmark data source

Here you can select the data source used as a benchmark. Besides that you need to select the time period of data to analyze. You can also change default the significance level.

2. Bond Info Area

Here you can type in the bond code to predict.

Next you can also change the default parameters (from Maturity Date to PAR value).

Fixed Income
Inquiry

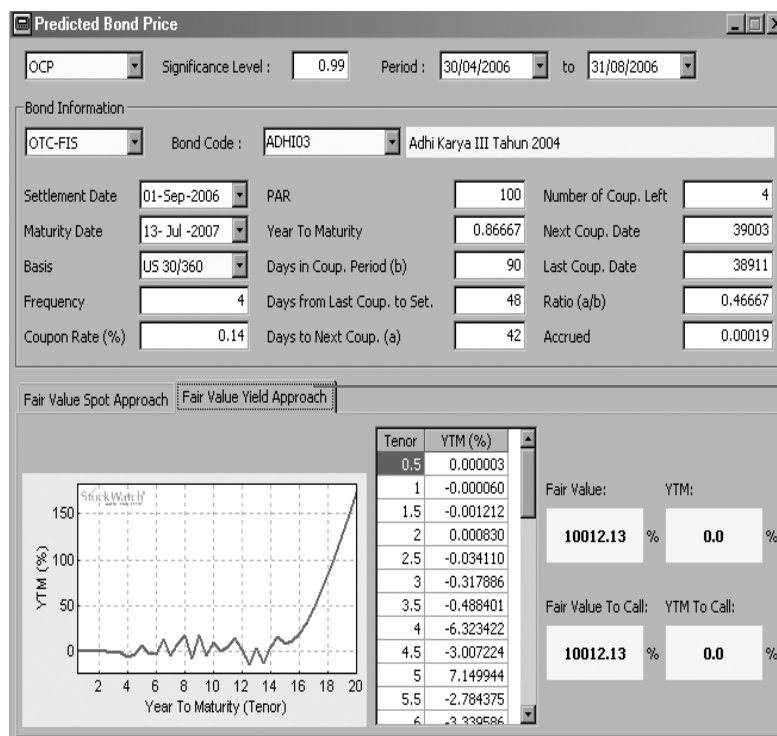
3. Fair Value-Spot Approach

The area where you can see Fair Value and YTM (yield to maturity) of bond, calculated based on a spot value.

Here you can select a spot benchmark type. The available types are:

Moderate Spot, Upper Spot, Lower Spot, and Spot based on benchmark.

If the selected bond is a callable bond, the Fair Value to Call and YTM to Call are also displayed.



4.

4. Fair Value-Yield Approach

The area where you can see Fair Value and YTM (yield to maturity) of bond, calculated based on a yield value.

If the selected bond is a callable bond, the Fair Value to Call and YTM to Call are also displayed.

Yield Calculator

Yield calculator enables you to see:

- Price of bond.
- Accrued Interest value.
- Bond's coupon detail information.
- Base price of bond.
- Invoice price of bond.

The screenshot shows the 'Yield Calculator' application window. At the top, there are dropdown menus for 'OCP' (set to 'OCP'), 'Code' (set to 'HI02XXBFTW'), and a text field for 'Adhi Karya II Tahun 2003'. The main area is divided into three sections: 'Bond Information', 'Market Information', and 'Market'. The 'Bond Information' section includes fields for Settlement Date (9/1/2006), Coupon rate (%) (14.5), Maturity date (6/10/2008), Redemption price (100.00), Basis (0), and Coupons per year (4). The 'Market Information' section includes Price (%) (110.5) and Nominal Value (Rp.) (200,000,000,000). The 'Market' section includes Base Price (Rp.) (221,000,000,000.00), Accrued Interest (Rp.) (6,525,000,000.00), Invoice (Rp.) (227,525,000,000.00), and Coupon Payment (Rp.) (7,250,000,000.00). The 'Analysis' section on the right includes Yield (%) (8.088), Accrued Interest (3.2625), Coupon Period (90), Last Coupon Date (10/06/2006), Days since last coupon (81), Next coupon date (10/09/2006), Days to next coupon (9), Remaining coupon (8), Years to maturity (1.78), and Duration (1.56).

Bond Information	
Settlement Date:	9 / 1 / 2006
Coupon rate (%):	14.5
Maturity date:	6 / 10 / 2008
Redemption price:	100.00
Basis:	0
Coupons per year:	4

Market Information	
Price (%):	110.5
Nominal Value (Rp.):	200,000,000,000

Market	
Base Price (Rp.):	221,000,000,000.00
Accrued Interest (Rp.):	6,525,000,000.00
Invoice (Rp.):	227,525,000,000.00
Coupon Payment (Rp.):	7,250,000,000.00

Analysis	
Yield (%):	8.088
Accrued Interest:	3.2625
Coupon Period:	90
Last Coupon Date:	10/06/2006
Days since last coupon:	81
Next coupon date:	10/09/2006
Days to next coupon:	9
Remaining coupon:	8
Years to maturity:	1.78
Duration:	1.56

Fixed Income
Inquiry

How to use

After selecting a bond code, you can change the default parameters in the Bond Information and Market Information area. The result is shown in:

- Market
- Analysis

Price Calculator

Price calculator enables you to see:

- Yield of bond.
- Accrued Interest value.
- Bond's coupon detail information.
- Base price of bond.
- Invoice price of bond.

MarketInfo
Viewers

The screenshot shows the 'Price Calculator' application window. At the top, there are dropdown menus for 'OCP' (set to 'OCP'), 'Code' (set to 'HI02XXBFTW'), and a text field for 'Adhi Karya II Tahun 2003'. The window is divided into three main sections: 'Bond Information', 'Market Information', and 'Market'. The 'Bond Information' section includes fields for Settlement Date (9 / 1 / 2006), Coupon rate (%) (14.5), Maturity date (6 / 10 / 2008), Redemption price (100.00), Basis (0), and Coupons per year (4). The 'Market Information' section includes Yield (%) (110.5) and Nominal Value (Rp.) (200,000,000,000). The 'Market' section includes Base Price (Rp.) (56,908,671,296.11), Accrued Interest (Rp.) (6,525,000,000.00), Invoice (Rp.) (63,433,671,296.11), and Coupon Payment (Rp.) (7,250,000,000.00). The 'Analysis' section includes Price (%) (28.454), Accrued Interest (3.2625), Coupon Period (90), Last Coupon Date (10/06/2006), Days since last coupon (81), Next coupon date (10/09/2006), Days to next coupon (9), Remaining coupon (8), Years to maturity (1.78), and Duration (1.51).

Bond Information	
Settlement Date:	9 / 1 / 2006
Coupon rate (%):	14.5
Maturity date:	6 / 10 / 2008
Redemption price:	100.00
Basis:	0
Coupons per year:	4

Market Information	
Yield (%)	110.5
Nominal Value (Rp.):	200,000,000,000

Market	
Base Price (Rp.):	56,908,671,296.11
Accrued Interest (Rp.):	6,525,000,000.00
Invoice (Rp.):	63,433,671,296.11
Coupon Payment (Rp.):	7,250,000,000.00

Analysis	
Price (%)	28.454
Accrued Interest:	3.2625
Coupon Period:	90
Last Coupon Date:	10/06/2006
Days since last coupon:	81
Next coupon date:	10/09/2006
Days to next coupon:	9
Remaining coupon:	8
Years to maturity:	1.78
Duration:	1.51

How to use

After selecting a bond code, you can change the default parameters in the Bond Information and Market Information area. The result is shown in:

- Market
- Analysis

Duration, MDuration and Convexity Calculator

Duration and Convexity Calculator

OCF: Code: GBRB0014NvE Obligasi Pem. Th. 2002 Seri FR0014

Benchmark:

Data: 16S 15 Period: 7 / 21 / 2004 to 8 / 28 / 2006

Targeted Yield: 8

Yield based on benchmark: 16.1182 Price based on benchmark: 101.0568

Bond Info

Last price/WAP: 106.407 Yield (%): 14.3940

Last date of price/WAP: 9 / 1 / 2006 Macaulay duration: 3.0925

PAR: 100 Modified duration: 2.8849

Coupon rate: 16.5 Convexity: 11.46

Maturity date: 11 / 15 / 2010 Day from prev coup to 106

Frequency: 2 Day from settl to next 74

Basis: 0 Day in accrued: 0.588889

Life in years: 4.2056 Number of coupon payment: 9

Price Change Scenario Analysis

Changed by: Benchmark Yield Pct of changes: 1.7242

	Changes	Pct of changes
Bond price will change by (price function):	-5.3500	-5.0279
Modified duration predicts:	-5.2928	-4.9741
Convexity adjustment:	0.1813	0.1704
Total predicted change:	-5.1115	-4.8037
New price by price function:	101.0570	
Predicted new price by M Durr and Convexity:	101.2955	

Duration and Convexity Calculator enables you:

- To see the scenario of bond price movement if the yield value is matched to the benchmark value.
- To see the scenario of bond price movement if the yield value is changed.
- To see the time table of coupon payment.

Fixed Income
Inquiry

How to use

- After selecting a bond code to analyze, select the market to benchmark in the Data section.
- Select the time period for benchmark in the Period section.
- Type in the target yield in Targeted yield.
- Detail information of bond is shown in the Bond Info.
- Select your analysis method in Changed by, there are 2 choices: Benchmark Yield (based on the value in the Yield based on benchmark column) or Targeted Yield (based on the value in the Targeted yield column).
- The result will be shown in the lowest table in the viewer.

Advance Calculator

The screenshot shows the 'Advance Calculator' window. It has a title bar with standard window controls. The main area is divided into several sections:

- Input Parameter:** Contains fields for Settlement date (8/24/2004), Maturity date (5/15/2005), Basis (30/360), Frequency (4), Face value (100), and Redeem value (100). There are radio buttons for 'Price' (selected) and 'Yield', and a field for '1 %'.
- Coupon:** Contains a 'Coupon type' dropdown set to 'Fixed', a 'Coupon left' field set to '3', and a 'Coupon rate' field set to '16,5 %'.
- Table:** A table with 4 columns: 'Coupon Rate', 'Coupon Payment', 'Redeem Payment', and 'Disc. Rate'. It contains 3 rows of data.
- Compute:** A button labeled 'Compute'.
- Result:** A section showing calculated values: Yield (98.7653 %), Duration (0.686014), Accrued interest (0.4125), MDuration (0.548811), Clean price (60.1765 %), and Convexity (0.420677).

Annotations with arrows point to the following elements:

- 'Select **Price** or **Yield**.' points to the 'Price' radio button.
- 'Select **Fixed**, **Variable** or **Other**.' points to the 'Fixed' coupon type dropdown.
- 'Type in Coupon Rate here.' points to the 'Coupon rate' field.
- 'Select the frequency of coupon payment in a year: 1,2, or 4 times.' points to the 'Frequency' dropdown.
- 'Click here to obtain the result.' points to the 'Compute' button.

Coupon Rate	Coupon Payment	Redeem Payment	Disc. Rate
0.04125	4.125		0.25
0.04125	4.125		0.25
0.04125	4.125	100	0.25

Advance Calculator enables you do a calculation to obtain a bond's yield or price.

How to use

- In **Input Parameter**, you can type in/select the user-defined parameters.
- Click Compute.
- The result is shown in **Result**.

The Advance Calculator viewer if coupon type = Other.

How many days in a year.

If coupon type = Other then type in the Coupon Rate and Predicted Price/Yield in this table.

Advance Calculator

ADHI02XXBFT Adhi Karya II Tahun 2003

Input Parameter

Settlement date: 8/30/2006 Frequency: 4

Maturity date: 6/10/2008 Face value: 100

Basis: 30/360 Redeem value: 100

☒ Price ☐ Yield 0.073399117 %

Coupon

Coupon type: Other Coupon left: 8

Date	10 Sep 2006	10 Dec 2006	10 Mar 2007	10 Jun 2007
Coupon Rate (%)	9	9	9	
Predicted Price (%)	12	13	14	

Periode	Coupon Period	Coupon Rate	Coupon Payment
1	10 Sep 2006	0.0225	2.25
2	10 Dec 2006	0.0225	2.25
3	10 Mar 2007	0.0225	2.25

Compute

Result:

Dirty price:	2.7376 %	Duration:	0.216814
Accrued interest:	3.6667	MDuration:	0.072245
Clean price:	-0.9291 %	Convexity:	0.039795

Fixed Income Inquiry

CHAPTER 6:

ALERT PARAMETER



ALERT PARAMETER

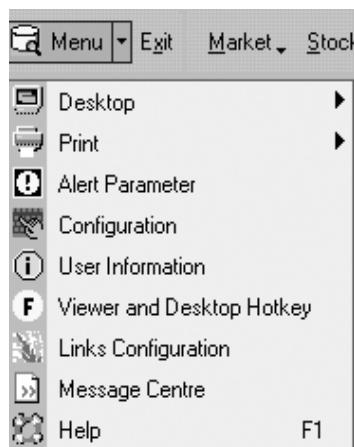
We have discussed thoroughly each viewer that is available on MarketInfo. In this chapter, we will discuss another feature that is of equal importance to MarketInfo viewers, which is **Alert Parameter**. It can be customized from **Desktop** menu in the MarketInfo Taskbar. This feature consists of four kinds of alert: which are **Price Alert**, **Volume Alert**, **Broker Alert** and **Market Alert**.

Alert
Parameter

The **Alert Parameter** is your personal assistant in monitoring stock movement. It will pop a window on your desktop when your monitoring parameter is exceeded. You can set your parameter based on price alert or volume alert. Two options are provided whether you want to apply **Alert Parameter** on certain stocks or on all stocks.

How to Open The Alert Parameter Window

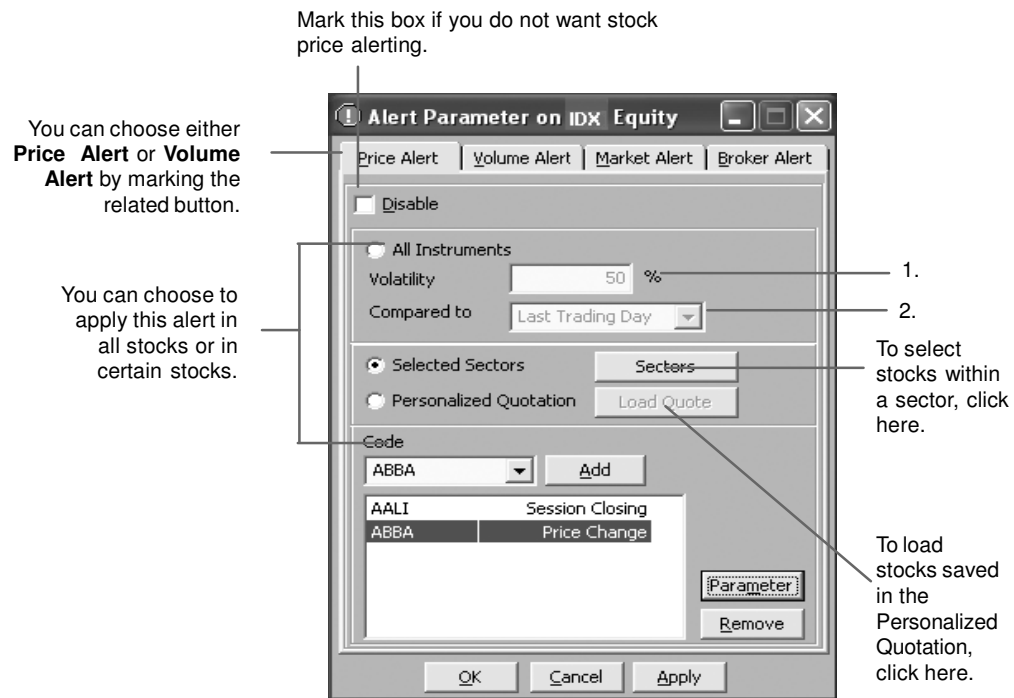
1. Click **Desktop** menu on MarketInfo taskbar.
2. Select **Alert Parameter**.



**Alert
Parameter**

Price Alert

Alert Parameter



All Instruments

Stock Price Alert can be applied to all stocks by selecting the all instruments radio button.

When price movement is bigger than the volatility limit (field 1 on the picture above), the alert window will pop up on the desktop. The volatility limit works both ways, meaning that it can be used both as the upper and lower limit (for the advancing and declining stocks respectively).

The price movement is calculated using the following formula:

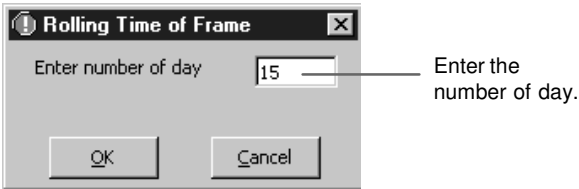
$$\text{Price Movement} = \frac{\text{End Price} - \text{Start Price}}{\text{Start Price}} \times 100\%$$

where,

Start Price = the price on the day defined on field 2 on the picture above.

End Price = current price.

MarketInfo comes with a predefined time period for calculating the start price. Just click on the **Compared to** drop-down menu to see it. You can also define your own time period by clicking **Others**, and another window will show up to let you define your own time period.

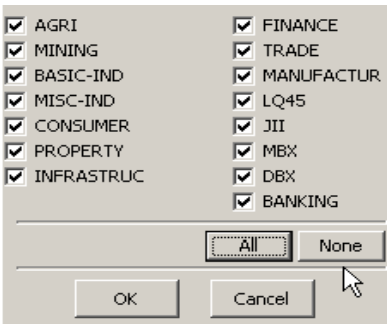


Selected Sectors

Stock Price Alert can also be applied to certain stocks.

To apply the alert to selected stocks:

1. Choose **Selected Sectors** by clicking the related radio button.
2. If you want to select a stock within a sector click the **Sectors** button. The following window will appear.



Choose the sector here, all stocks within the sector will be available to choose from the **Code** drop-down menu.
Next, select the stock code from the **Code** drop-down menu.

3. Click **Add** button and then the **Parameter** button to configure alert parameters for this stock code. The following is an Alert Parameter window.

Alert
Parameter

Alert Parameter

- Price Change, means the user will be notified on every price change of the selected stock.
 - Session Closing, the user will be informed with closing price on first and second session closing.
 - End of Day, after market closing, the user will be notified with the closing price of selected stock(s).
 - Second Interval, the user will be alerted periodically according to the set value.
 - Change Size, a user can also determine the maximum price change to trigger the alert.
 - Maximum and Minimum Price Exceeded. When stock price hits the upper or lower limit given, the user will be notified.
 - Minimum and Maximum Offer. When offer price exceeds the given upper or lower limit, the user will be notified.
 - Minimum and Maximum Bid. When bid price exceeds the given upper or lower limit, the user will be notified.
4. Choose your selections here and click Ok.

Your configured alert parameters will be displayed on the list box on the bottom part of Alert parameter window.

To remove a configured alert parameter, click on the configured alert parameter, then click the **Remove** button.

Volume Alert

Mark this box if you do not wish volume alerting.

You can choose either **Price Alert** or **Volume Alert** by marking the related button.

You can choose to apply this alert in all stocks or in certain stocks.

1.

2.

To select stocks within a sector, click here.

To add certain instrument into the watched ones, select the code and enter the maximum limit of volume, then click **Add** to apply.

**Alert
Parameter**

All Instruments

Volume Alert can be applied to all stocks by selecting the all instruments radio button.

The difference between **price alert** and **volume alert** other than the obvious (one uses price and the other uses volume) is that, in **volume alert**, the limit is compared to the average volume.

The formula to calculate the average volume is:

$$\frac{\text{Volume day 1} + \text{Volume day 2} + \dots + \text{Volume day } n}{n} \times (1 + \text{Volatility})$$

where,

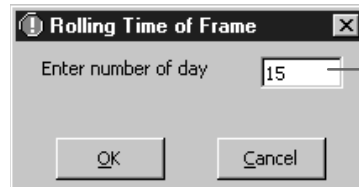
n = number of days, in correspondence with field 2.

Volatility is the user-defined volatility limit as defined in field 1.

The alert window will appear when current volume is greater than the average volume limit stated above.

Identical with the **Price Alert**, MarketInfo has already provided time period for calculating the average volume volatility. You can change the time period by clicking the **Compared to** drop down menu.

In addition, similar to the **Price Alert**, you can customize the time period by choosing **Others**. Another window will pop up.



Enter the number of days of the alert to check the changes.

Selected Sectors

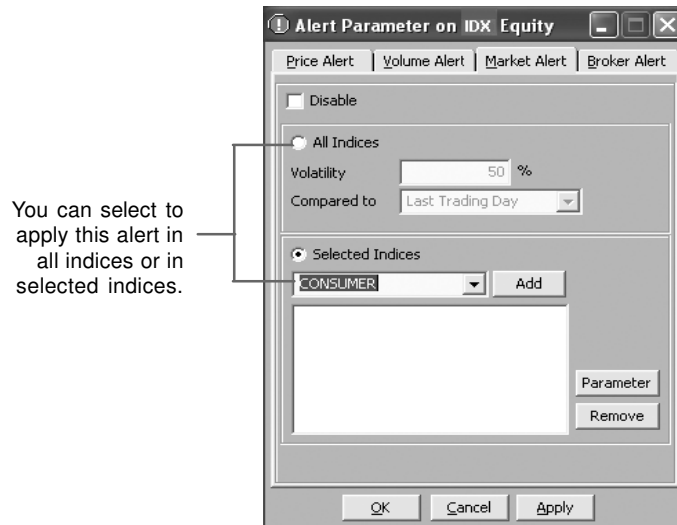
Volume Alert can also be applied to certain stocks.

To apply the alert to selected stocks:

1. Choose **Selected Sectors** by clicking the related radio button.
2. Select the stock code from the drop-down menu. If you want to select a stock within a sector click on the **Sectors** button.
3. Select the maximum stock volume as the volatility limit.
4. Click **Add** button to configure alert parameters for this stock code.

Market Alert

The market alert will notify users on index changes. Similar to Stock Alert, user can also select parameters to trigger alert. All price alert parameter explanations described before are applicable to this alert.



Alert
Parameter

Broker Alert

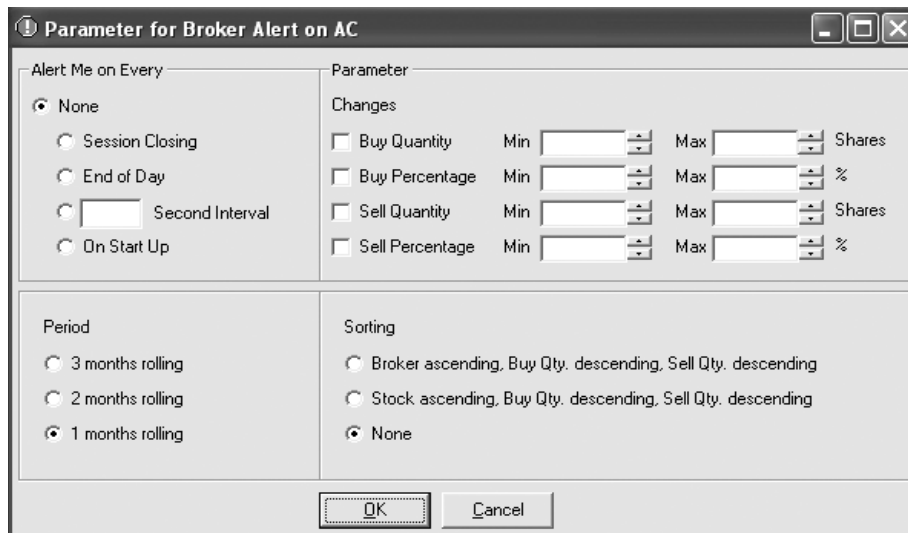
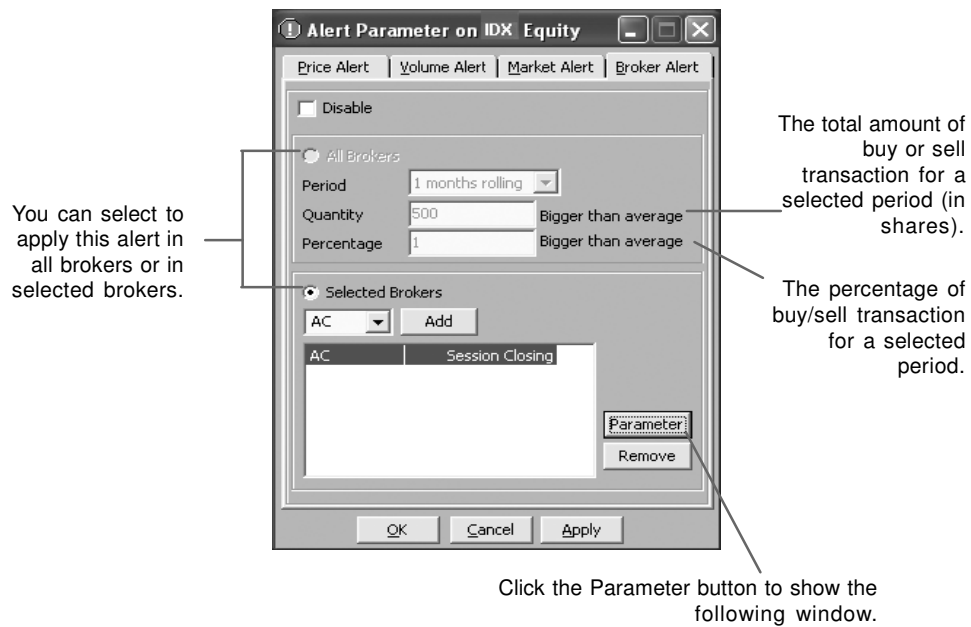
Broker Price Alert can be applied to all broker codes by selecting the all brokers radio button.

You can also set the alert parameter to selected brokers by selecting the Selected Brokers radio button.

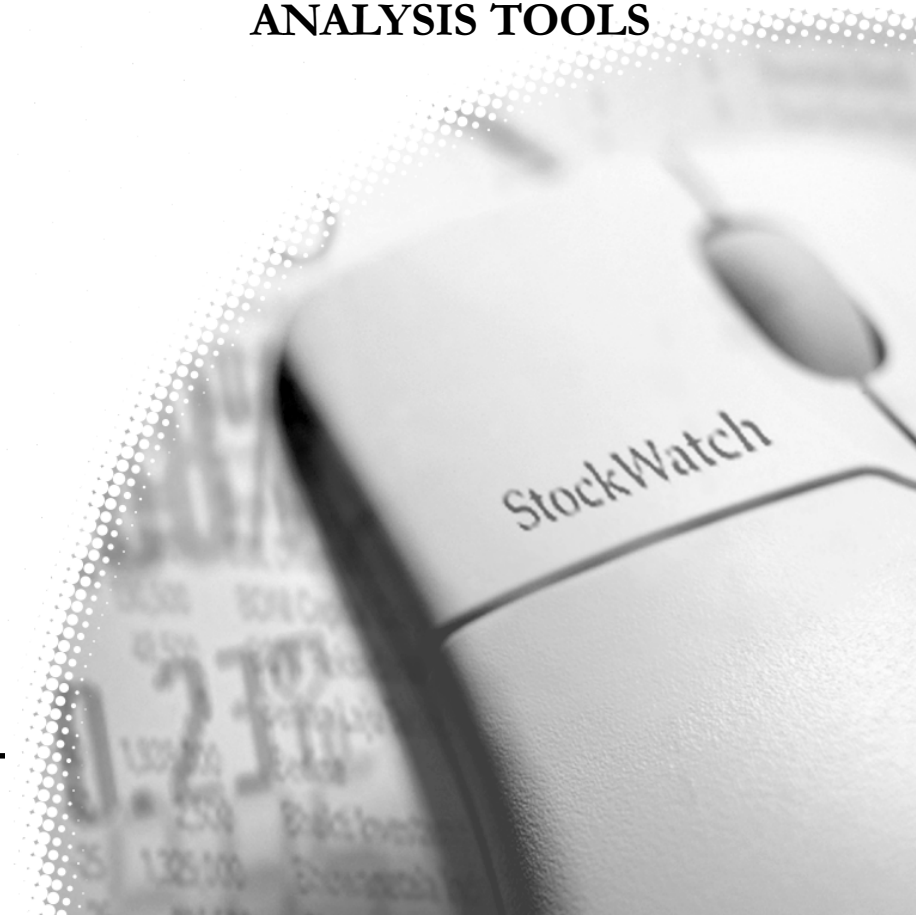
If you set the alert to all brokers, the average value calculation for determining the alert depends on the type of period you selected. The available period types are:

- 3 months rolling : the calculated data is obtained from 3 months ago to today.
- 2 months rolling : the calculated data is obtained from 2 months ago to today.
- 1 month rolling : the calculated data is obtained from 1 month ago to today.

Alert Parameter



CHAPTER 7:
MARKET INDICATORS AND
TECHNICAL
ANALYSIS TOOLS



MARKET INDICATORS

Definition

Market indicators add significant depth to technical analysis, because they contain more information than just price and volume. A typical approach is to use market indicators to determine where the overall market is heading and then use a price/volume indicator to determine when to buy or sell an individual stock.

Market indicators are one of the most important decision-making barometers in investing. Generally, market indicators can be divided into three categories:

- a. Monetary indicators (interest rate, inflation, etc.).
- b. Sentiment indicators (investor's expectation).
- c. Momentum: shows the price performance in more depth.

Market Indicators

There are four market indicators available in MarketInfo, all of them are momentum indicators. The four market indicators are:

- a. Advance/Decline Line.
- b. Advance/Decline Ratio.
- c. Advance/Decline Issue
- d. Advancing, Declining, Unchanged Volume.

The first three momentum indicators (a, b and c) can be categorized further into what is called a **market breadth indicator**. Market breadth indicators are those that use advancing and declining stocks in its calculation. Whereas the last one (d) uses volume as the basis of its calculation.

How to Draw a Market Chart

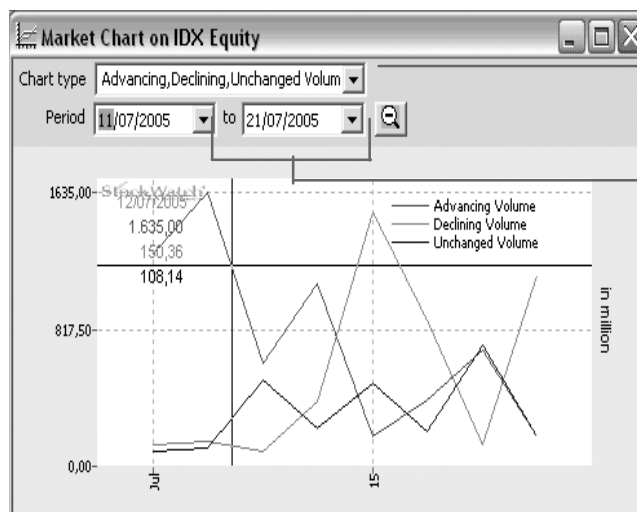
1. Open **Market Chart** viewer under **General Chart** section.
2. Select the market chart type you want to create.
3. Select the analysis period.

Select **Market Chart** from the drop-down menu.



Advance/Dcline Issue (A/D Issue)

The Advance/Dcline Issue chart is calculated by subtracting the number of stocks that decline in price, from those that advance. The difference between advancing and declining stocks is the foundation of many market breadth indicators.



Choose the
market indicator
chart to display.

Click this down
arrow to select the
analysis period.

Advance/Decline Line (A/D Line)

The Advance/Decline line is the most widely used market breadth indicator. This chart is calculated by adding the cumulative total of the Advance-Decline Issues indicator. This line is helpful in measuring overall market strength. When more stocks are advancing than declining, the A/D line moves up (and vice versa).

Usage

The most popular usage of **Advance/Decline Line** is to look for a divergence. Divergence is an occurrence when a stock's price doesn't agree with the trend of an indicator (example: when the stock's price keeps climbing while the A/D line fails to reach new heights). This divergence usually denotes a trend reversal, where the stock's price will soon follow the indicator.

Advance/Decline Ratio (A/D Ratio)

The Advance / Decline Ratio shows the ratio of advancing stocks to declining stocks. It is calculated by dividing the number of advancing stocks by the number of declining stocks. The advantage of using the A/D ratio is that it remains constant regardless of the number of stocks traded on the Stock Exchange.

Advancing, Declining, Unchanged Volume

Advancing, declining, and unchanged volume are all market movement indicators. Advancing volume is the total volume of stocks that advanced in price. Similarly, declining volume is the total volume of stocks that declined in price, and unchanged volume is the total volume of stocks that was unchanged in price.

Usage

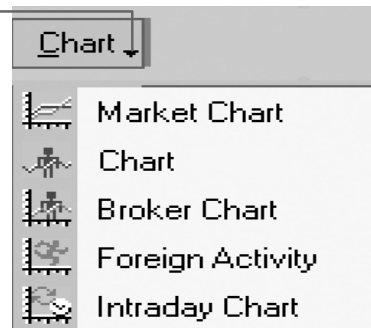
One of the usages of the advancing or declining volume chart is to look for a volume divergence. Volume divergence happens, for example, when the advancing volume increases, but the market falls. You can use the volume divergence to view, for instance, selling or buying pressure, or to view daily trends.

TECHNICAL ANALYSIS

Definition

Technical analysis is the study of prices, using charts as the primary tool, to help you make a better investment. They help you by putting a scientific approach into your decision-making on investments. Another definition states that technical analysis is the process of analyzing a stock's historical prices, in an effort to determine the probable future prices. It is impossible, however, to know tomorrow's stock prices today, but by using a good technical analysis tool, you can improve your odds. MarketInfo provides some of the most popular technical analysis tools. All these technical analysis tools are available on **Stock Chart** viewer.

Click **General Chart** drop-down menu.

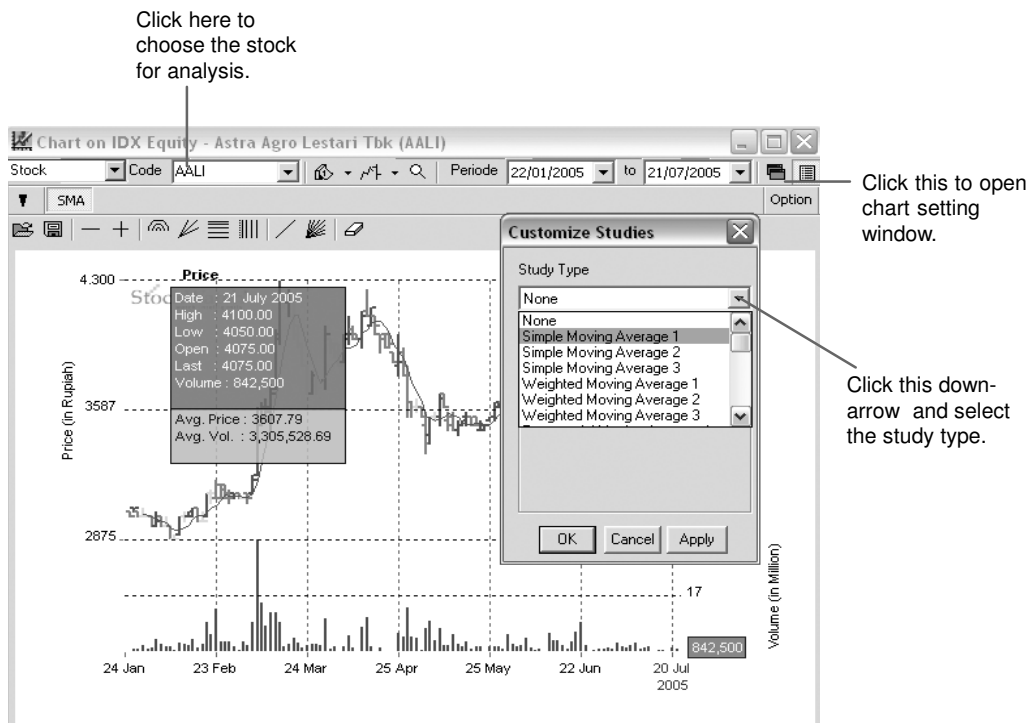


Market Indicators
and Technical
Analysis Tools

How to Draw a Technical Analysis Chart

1. Open the **Stock Chart** viewer under **General Chart**.
2. Choose the stock you want to analyze, and the analysis period. A chart showing price movement of that stock will be displayed on the viewer. To customize the chart's appearance, please read *Chapter 5: MarketInfo Viewers*, on *General Chart* section.

3. Choose the technical analysis tool to apply to the chart. You will be prompted to enter the parameter(s) for the technical analysis chart. The explanation for each parameter needed for every chart type will be presented next.



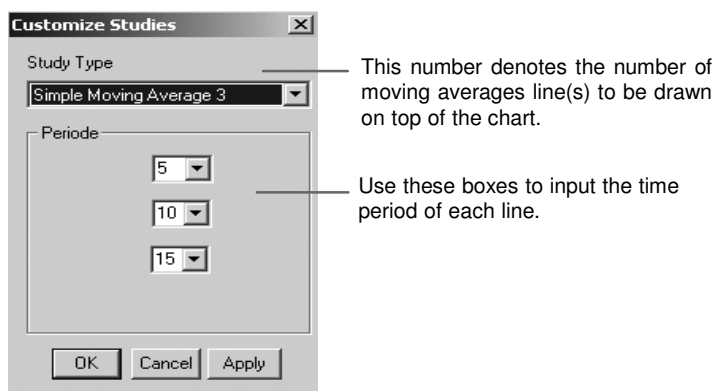
Market Indicators and Technical Analysis Tools

Moving Averages

Moving Averages are indicators that show the average value of a stock's price over a period of time. There are five types of Moving Average charts: Simple, Exponential, Weighted, Triangular, and Variable. In MarketInfo, three types of Moving Average analysis are available: **Simple**, **Exponential**, and **Weighted**.

The difference between all these types of Moving Averages is on how much weight is assigned to each part of the data. On the Simple Moving Average analysis, all data receive the same weight. On the Exponential and Weighted Moving Average analysis, recent data receives more weight.

In MarketInfo, you can display up to three Moving Average lines simultaneously for every type of Moving Average chart (dubbed, for example, Simple Moving Average 1, 2, and 3). Enter the time period in the available box, and MarketInfo will draw the Moving Average line on top of the stock's price chart.



Usage

The most popular usage of a Moving Average chart is as an indicator to buy or sell. When the stock's price rises above its Moving Average line, the buy signal is generated. The sell signal is generated when the stock's price falls below its Moving Average line.

One thing to notice is that the Moving Average is not intended to get you in the exact bottom or exact top. It is designed to keep you in line with the stock's price trend by buying shortly after the stock's price bottoms, and selling shortly after its tops.

Time Period

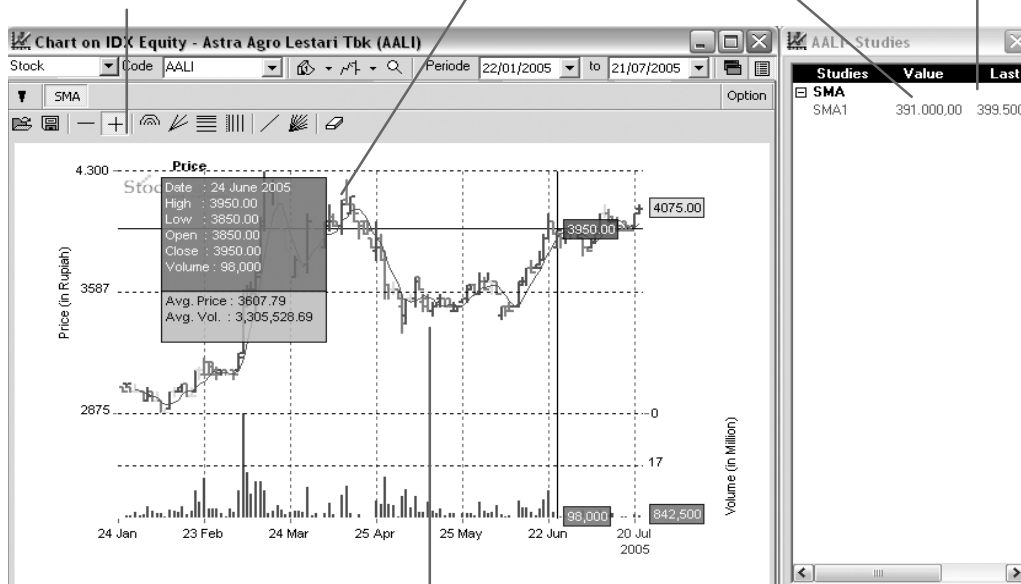
The most critical element in a Moving Average analysis is the time period used to calculate it. To determine the most “beneficial” time period, you must first determine the stock’s peak-to-peak cycle.

Click this + button to display the study’s values in a separate window at the right-side of the main chart window.

Details at the cursor position.

The study’s value at the cursor position.

The last value of the active study.



The moving average line (one of the available studies in MarketInfo Charts) is drawn on top of the stock price's chart.

Simple Moving Average (SMA)

The Simple Moving Average chart is calculated by adding the closing price of the stock for a predefined time period and then dividing the cumulated value by that time period. This results in an average price of stock over the time period. In MarketInfo you can display up to three simple moving average lines on a single chart.

Exponential Moving Average (XMA)

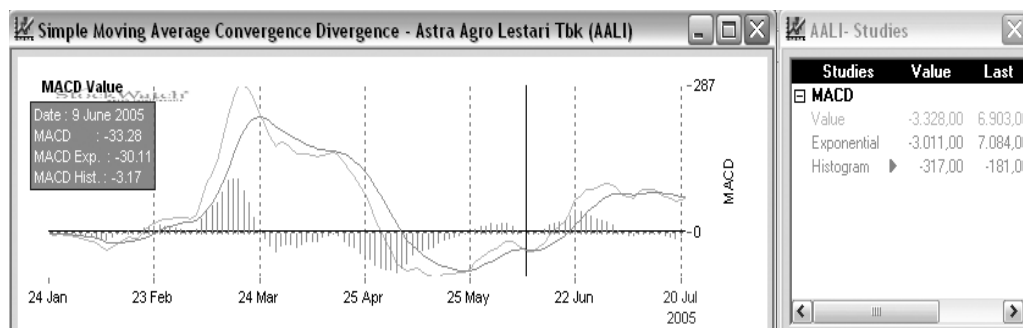
An exponential (or exponentially weighted) moving average is calculated by applying a percentage of today's closing price to yesterday's moving average value. Previous day's Moving Avg. is obtained by presuming that the starting entry is equal to its exponential avg. Similar to simple moving average, user can also plot up to three charts. Exponential moving averages places more weight on recent prices.

Weighted Moving Average (WMA)

A weighted moving average is designed to put more weight on recent data and less weight on past data. A weighted moving average is calculated by multiplying each of the previous day's data by a weight.

MACD

The MACD (Moving Average Convergence/Divergence) is a trend-following momentum indicator that shows the relationship between two Moving Averages of prices. The MACD is the difference between a 26-day and 12-day exponential moving average. A 9-day moving average, called the "signal" or the "trigger" line, is plotted on top of MACD to show buy/sell opportunity.



Usage

There are three popular ways to use the MACD, which are:

- **Crossover**

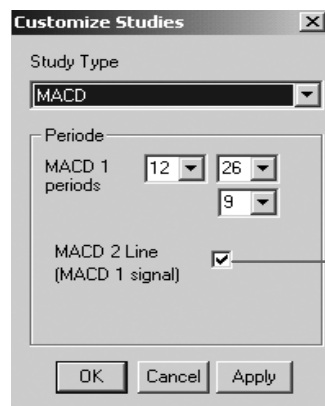
The basic use of MACD is as a sell indicator, which is when the MACD line falls below its signal line. Similarly, it is time to buy when the MACD line rises above its signal line. The buy/sell indicator is also invoked when the MACD line goes above/below zero.

- **Overbought/Oversold Conditions**

When the shorter Moving Average pulls away dramatically from the longer Moving Average (the MACD line rises), it is likely that the stock's price is overextending and will soon return to a more realistic level.

- **Divergences**

This indicates that an end to the current trend might occur. It occurs when the MACD diverges from the stock.

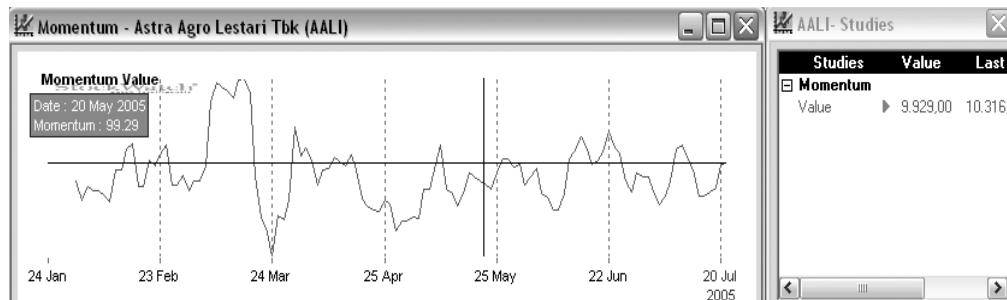


Mark this box if you want to draw the signal line on top of the MACD line.

Momentum

The momentum indicator measures the amount that a stock's price has changed over a given time span.

Similar with MACD, the momentum is also displayed on a separate child-window.



Usage

The momentum indicator can be used in two ways:

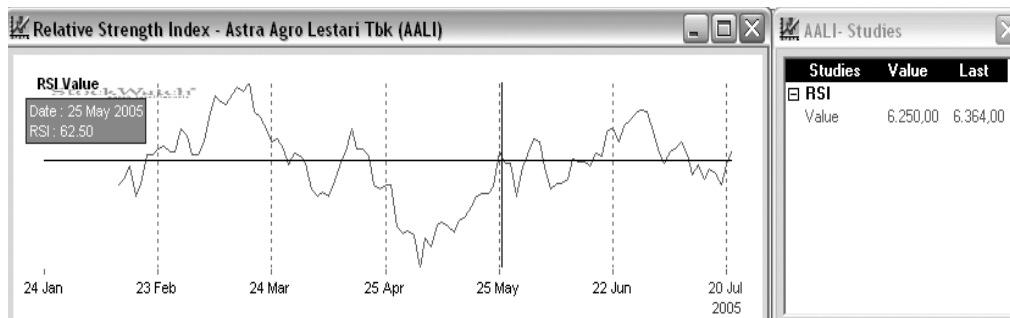
1. As a trend-following oscillator, similar to MACD. The buy signal occurs when the indicator bottoms and turns up, and the sell signal occurs when the indicator peaks and turns down. When the momentum indicator reaches extremely high or low value as compared to its historical value, you can assume continuation of the trend. (e.g. when the momentum indicator reaches extremely high value and turns down, you can assume that the price will probably go higher).
2. As a leading indicator. As the market peaks, the momentum indicator will climb sharply and then fall off, diverging from the continued upward or sideways movement of the price. Similarly, at the market bottoms, momentum will drop sharply and then begin to climb ahead of prices (causing a divergence).

Relative Strength Index (RSI)

Relative Strength Index (RSI) is a momentum indicator measuring a stock's price relatively to itself. It is relative to its' past performance, and front weighted. RSI is introduced to eliminate three flaws associated with oscillators:

1. RSI smoothes out the extreme points used to calculate the oscillator, so that the erratically high values are eliminated.
2. RSI returns a value between 0 and 100. This makes spotting the most stocks easier. Other oscillators do not limit their vertical scale, thus it makes it harder to determine the buy/sell signals.
3. RSI is easy to calculate and to keep track of.

When firstly introduced by Welles Wilder, RSI used the 14-day period, and since then it becomes the most popular period.



Market Indicators
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Usage

The five popular usages of RSI are:

- **Tops and bottoms**
RSI will usually top out or bottom out before the actual market, indicating that a reversal or at least a significant reaction is imminent.
- **Chart formations**
RSI will sometimes form patterns such as head-and-shoulder or triangles, which sometimes are not visible on the price chart.
- **Failure swing**
Failure swing is where RSI surpasses a previous high or falls below a recent low.

- **Support and resistance**

Areas of support and resistance often show up clearly on the index before becoming apparent on the price chart.

- **Divergence**

Divergence is when the price makes a new high/low, that is not confirmed by a new high/low in the RSI. This usually signals that a price correction towards the RSI direction is imminent.

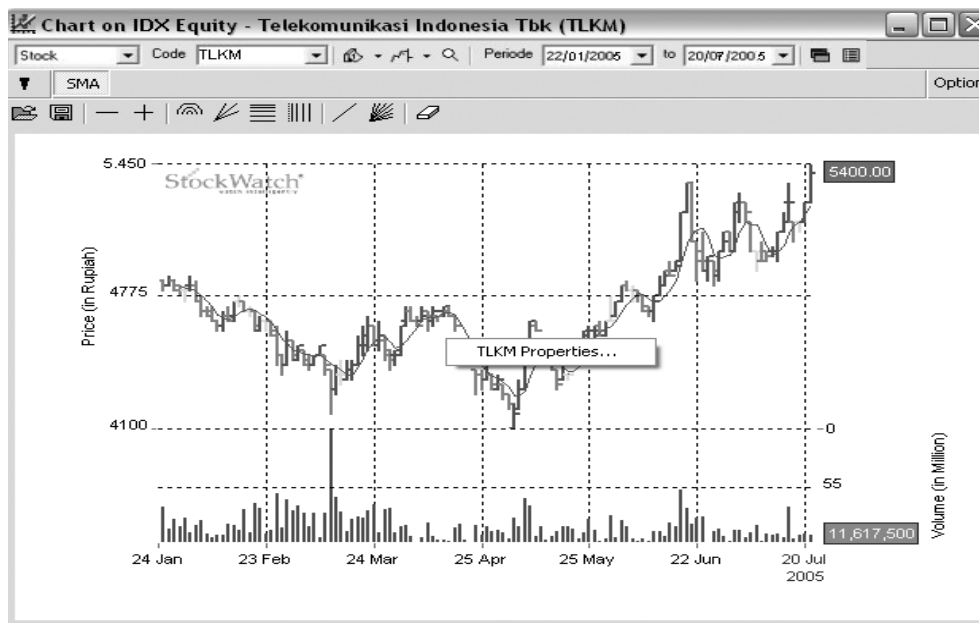
Volume

The volume chart simply shows a number of stocks traded. It is displayed below the stock's price chart. This analysis is considered to be a very important element of technical analysis, because it provides clues to the intensity of a given price move.

Usage

Low volume signals the indecisive expectations that typically occur during consolidation period and during market bottoms. On the other hand, high volume is the characteristic of market tops, when there is a strong consensus that prices will move higher.

Volume analysis is also normally used to see the continuation of a trend. A healthy upward trend will show a high volume during the upward move and lower volume on the downward move (vice versa for a healthy downward trend).

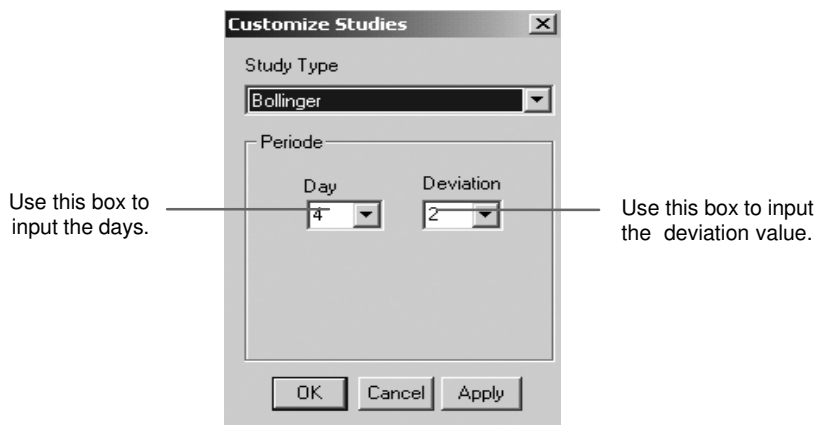
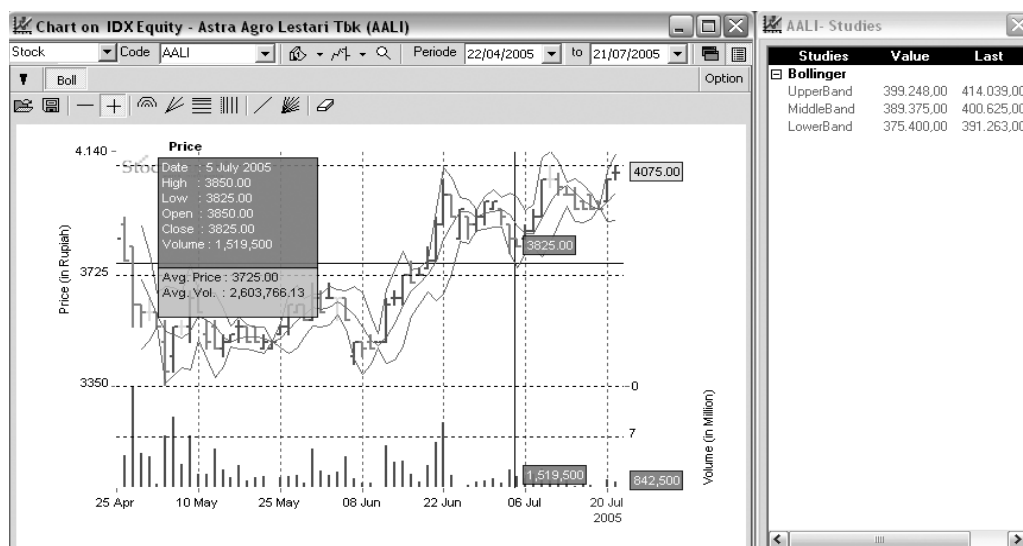


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Bollinger Bands

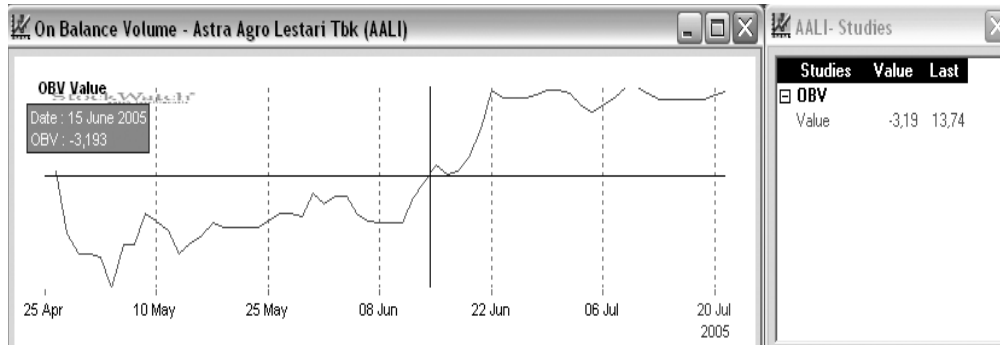
The Bollinger Bands are similar to moving average envelopes. The difference between Bollinger Bands and envelopes is that envelopes are plotted at a fixed percentage above and below a moving average, whereas Bollinger Bands are plotted at standard deviation levels above and below a moving average.

Bollinger Bands are displayed as three bands. The middle band is a normal moving average. To configure the Bollinger Bands, click the **Boll** button, then click the **Option** button. The **Study** pop-up window will appear, choose **Bollinger**. Here, you can set parameters used in calculating the bollinger bands.

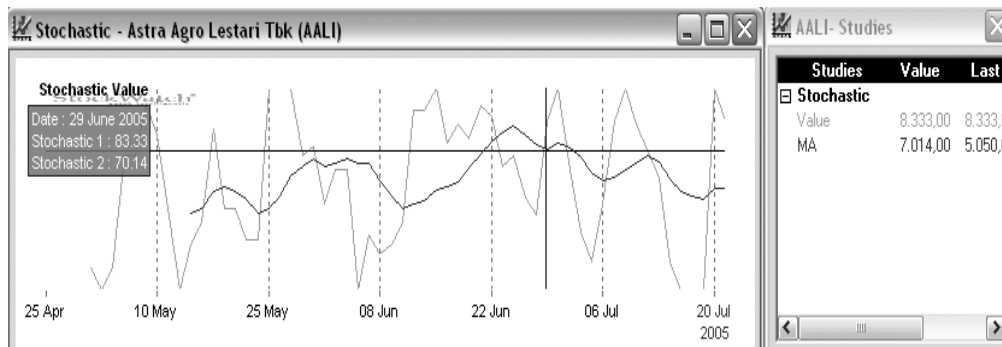


On Balance Volume

On Balance Volume is (OBV) is a momentum indicator that relates volume to price change.



Stochastic Oscillator (OTC)



The Stochastic Oscillator (OTC) compares the closing price of a stock to its' price range over a given time period. The Stochastic Oscillator is displayed as two lines. The main line is called %K. The second line, called %D, is a moving average of %K. The %K line is displayed as a **green** line, and the %D line is displayed as a **blue** line.

The Stochastic Oscillator has four variables:

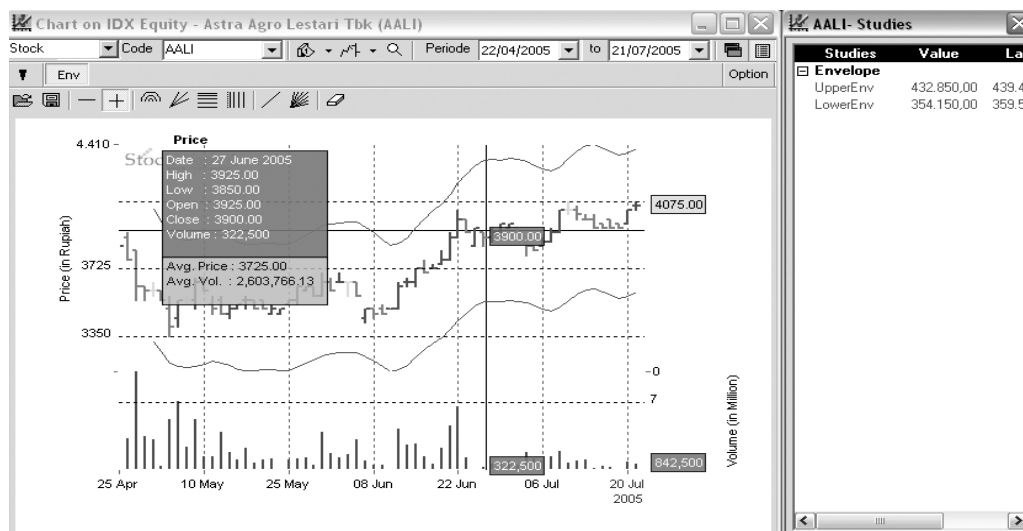
1. **%K Period** is the number of time periods used in the stochastic calculation.
2. **%K Slowing Period**, this value controls the internal smoothing of %K. A value of 1 is considered a fast stochastic while 3 is considered as a slow stochastic.

3. **%D Period** is the number of time periods used when calculating a moving average of %K. The moving average is called %D and is usually displayed as a red line on top of %K.
4. **%D Method**, the method (i.e., Exponential, Simple, Time Series, Triangular, Variable, or Weighted) that is used to calculate %D.

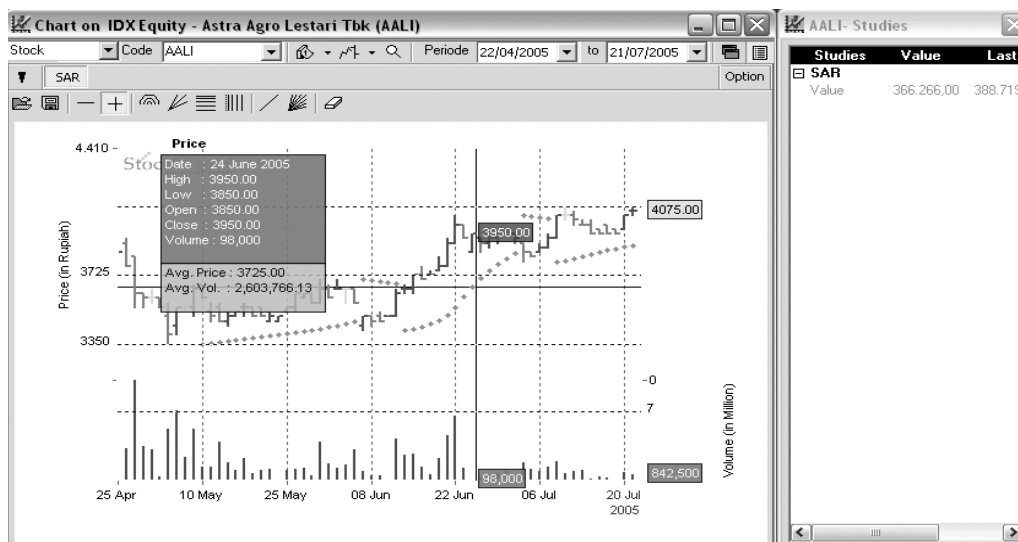
You can set the %D and %K line period by clicking the **Option** button when the Stochastic window is active.

Envelope (Trading Bands)

An envelope is comprised of two moving averages. One moving average is shifted upward and the second moving average is shifted downward.



Parabolic SAR (Stop and Reverse)



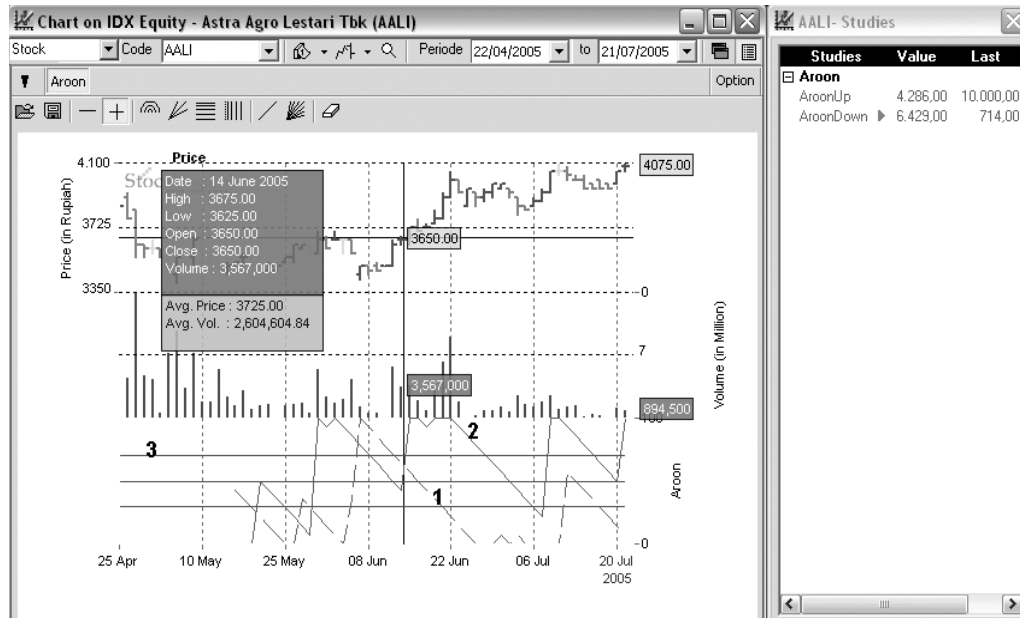
The parabolic SAR is a concept that plots the price up or down tendency during trading. The variables used to create a parabolic SAR are as follows.

SIP (significant point) is the number that is set to plot the first SAR point. The SIP can be either **low SIP**, when the price trend rises, or **high SIP** when the price trend falls. Then the SIP moves to either a **low extreme point** or **high extreme point**. The low extreme point will be updated when a lower price develops, the high extreme point will be updated when a higher price develops. The acceleration factor is ranging from 0.02 to 0.2.

You can set the parabolic SAR period by clicking the **Option** button when the parabolic SAR window is active.

Aaron Indicator

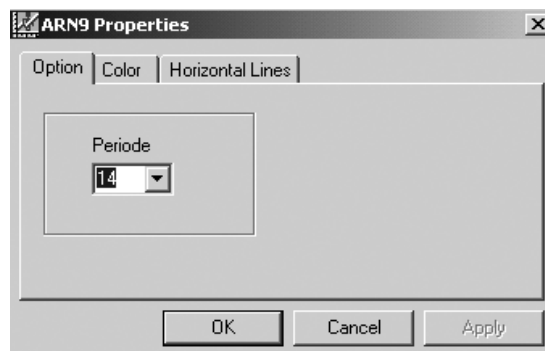
Aaron indicator is used to detect if the stock is in its up trend or down trend. The indicator can also be used to detect consolidation.



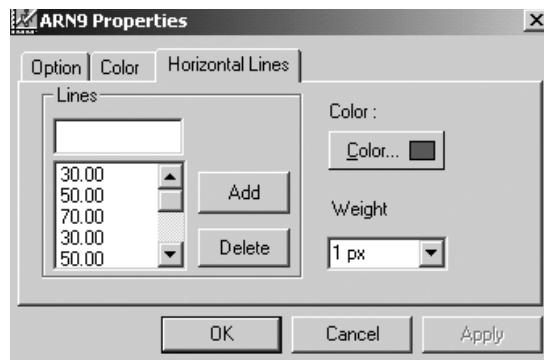
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Analysis Tools

- 1 = Aaron down line.
- 2 = Aaron up line.
- 3 = Aaron horizontal lines.

There are several parameters to set, which are period of analysis and Aaron horizontal lines values.



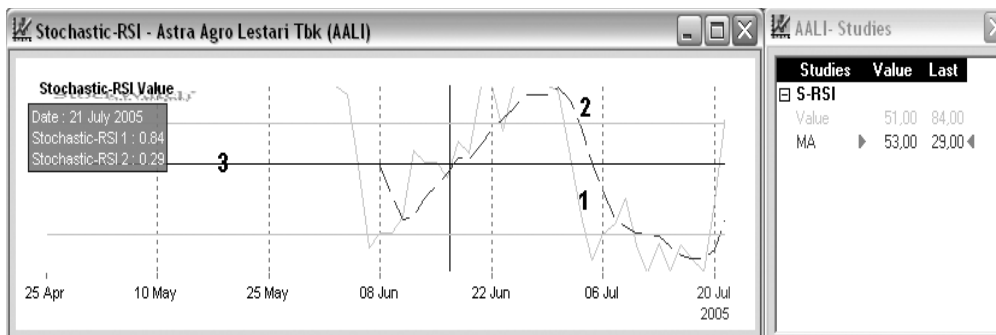
The default value for the period is 14 days. For the Aaron horizontal lines, the default values are 30,50 and 70.



Stochastic RSI

Stochastic RSI is a combination of stochastic oscillator and RSI.

This analysis can detect overbought or oversold of a stock.



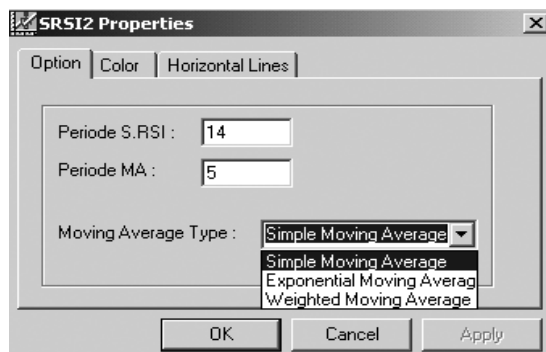
1 = Stochastic RSI.

2 = moving average.

3 = horizontal lines.

Ada beberapa parameter Stochastic RSI , antara lain periode Stochastic RSI, moving average dan nilai-nilai garis horizontal Stochastic RSI.

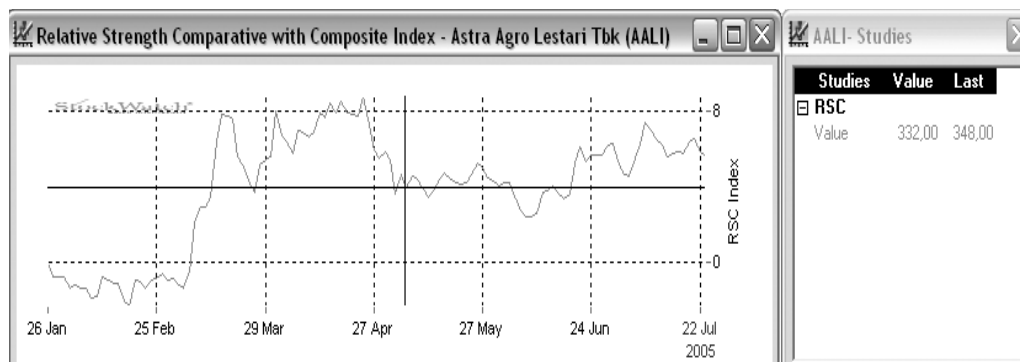
There are several parameters to set, which are Stochastic RSI period of analysis, moving average period of analysis and Stochastic RSI horizontal lines values.



Here you can change Stochastic RSI period of analysis, moving average period of analysis and moving average type to use. The Stochastic RSI horizontal lines values are available in the Horizontal Lines tab.

Relative Strength Comparative with Composite Index

This analysis is used to compare the closing price of a stock with the closing price of Composite Index.



Automatic Support and Resistance

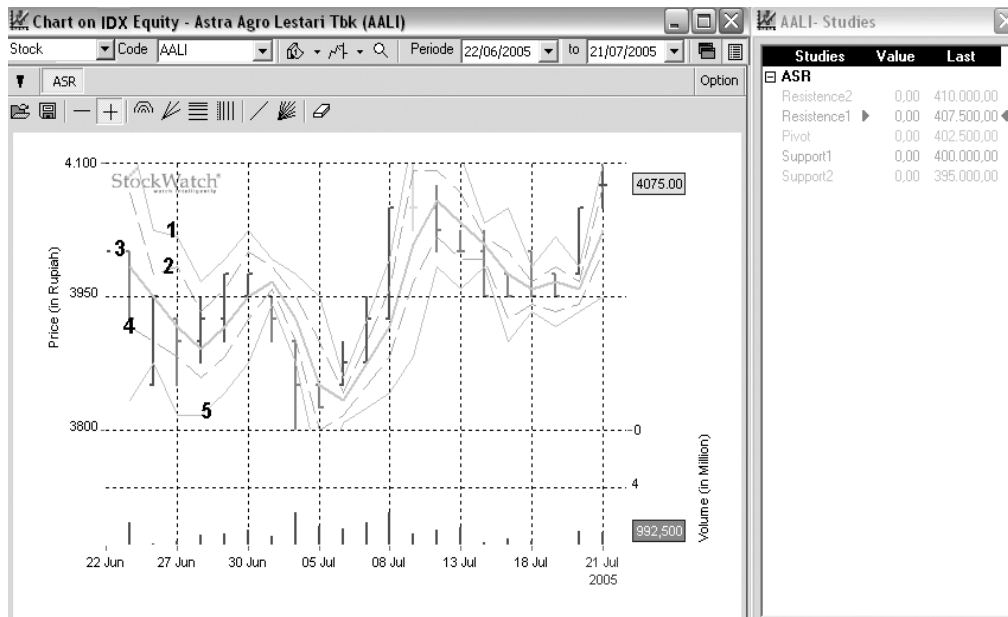
This analysis is used to show resistance and support points of a stock price movement.

The available methods: Pivot and Moving Average.

Pivot

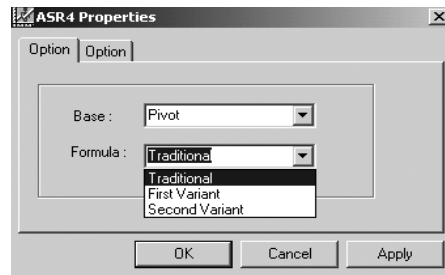
This method is used to show daily resistance and support points of a stock price movement. The available formula: Traditional, First Variant and Second Variant.

The results of this pivot method are: pivot point, first support level, second support level, first resistance level and second resistance level.



- 1 = Resistance 2.
- 2 = Resistance 1.
- 3 = Pivot.
- 4 = Support 1.
- 5 = Support 2.

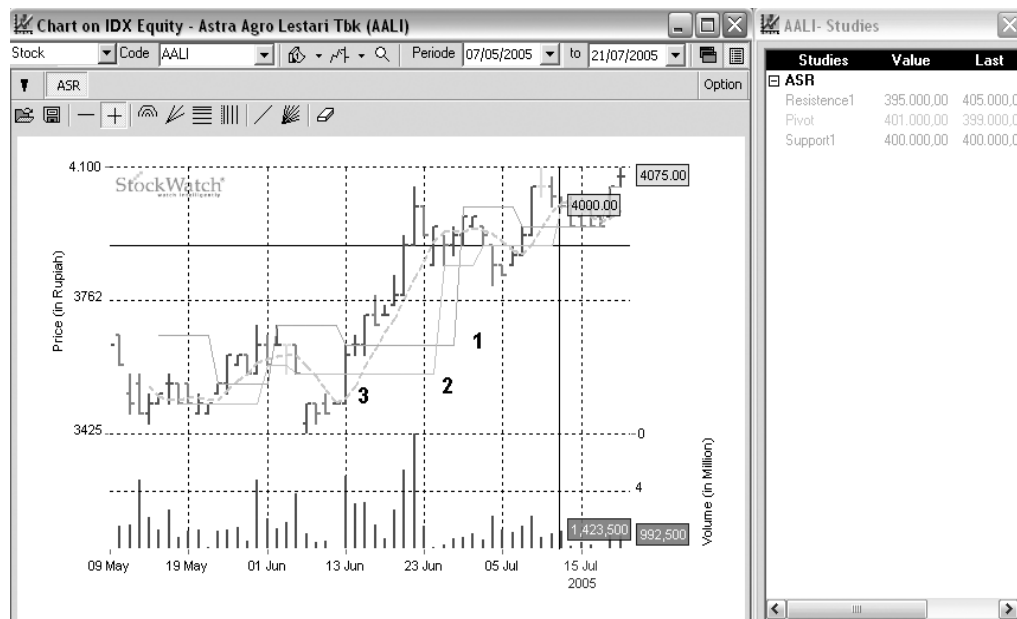
To show Automatic Support and Resistance using the pivot method, select Pivot from the Base input box, next select a formula from the Formula input box.



Moving Average

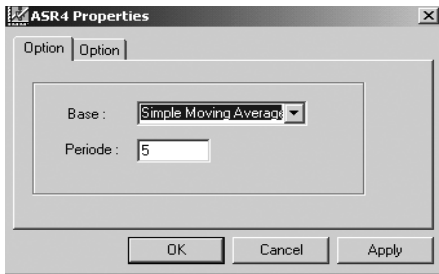
This method is based on closing price of a stock. If the value of stock price moving average is lower than its closing price then this indicates an up trend of the stock price.

The available methods: simple moving average, weighted moving average and exponential moving average.



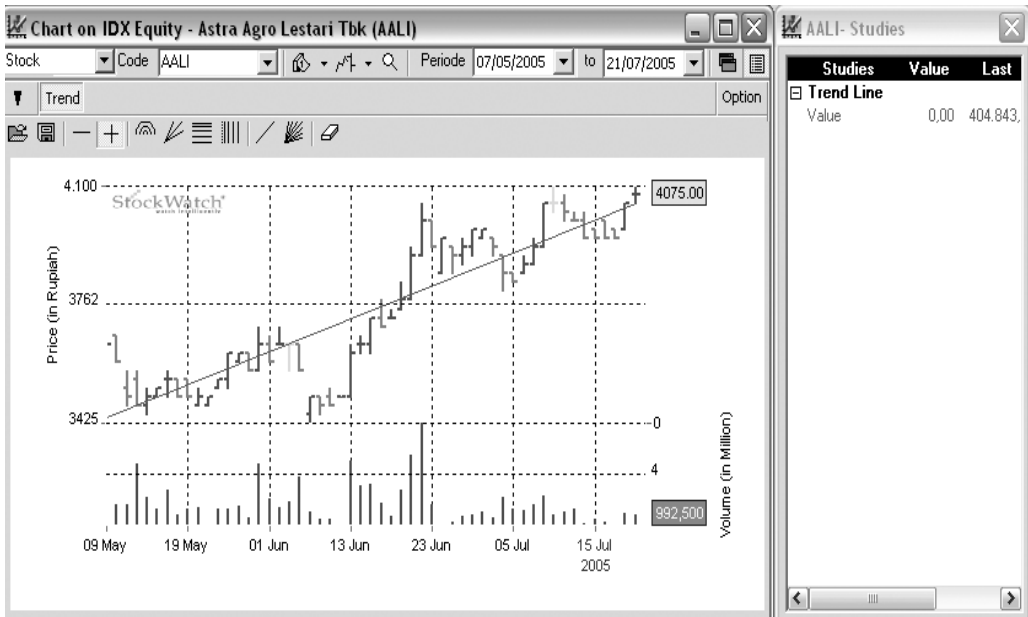
- 1 = Resistance.
- 2 = Support.
- 3 = Moving average.

To show Automatic Support and Resistance using Moving Average, select one of the available Moving Average methods in the Base input box, then select Period analysis in the Period input box.



Trend Line

This method shows a trend line of a stock price movement.



Market Indicators
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CHAPTER 8:

HOW TO GET HELP



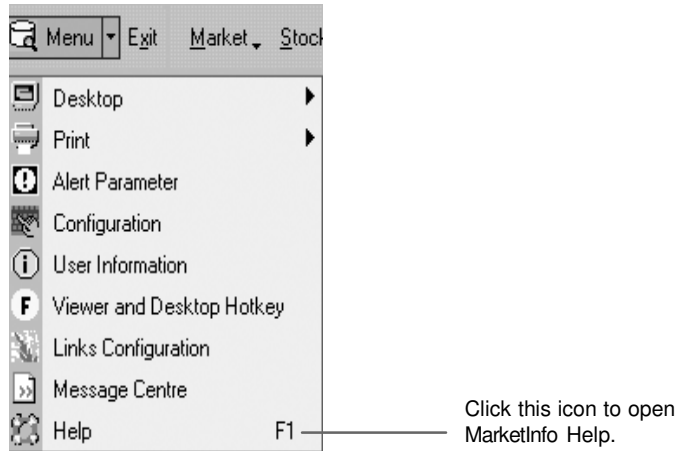
THE ONLINE HELP

Besides this User Manual, we also provide the online **MarketInfo Help**. The help file is designed to give you a straightforward answer to any questions that you might have. This chapter will explain how to use the Help File in MarketInfo. If you are already familiar with Windows help system, you can skip this section safely.

MarketInfo Help contains concise information on all features available in MarketInfo. It is designed for quick reference, to give you direct answers to any questions you might have.

How to Open MarketInfo Help

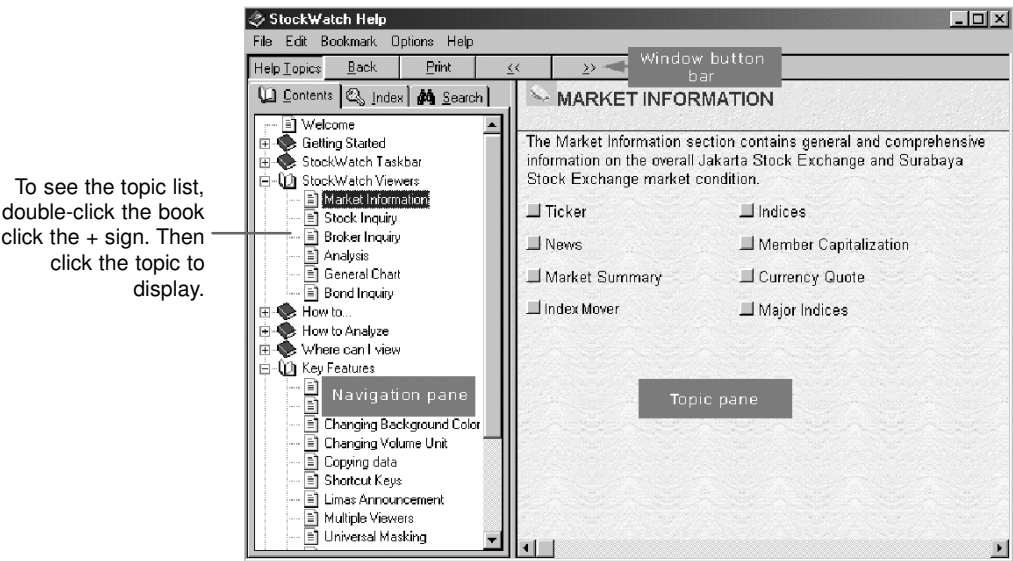
To open the Help File, click the Help icon on the taskbar, and the **Help Topics** window will appear on your screen.



Tip: As shortcut, you can press <F1> key to call MarketInfo Help instantly.

The Explorer Help window

MarketInfo Help window can be divided into three main parts: window button bar, navigation pane and topic pane.



Window Button Bar

Window button bar is displayed across the top of the help window. The buttons attached to this bar are:

Button	Function
	By using this button you can show or hide the navigation pane.
	To return to the previous opened topic.
	To print the active topic.
	<i>Browse</i> buttons are used to open previous or next topic; click the >> button to move to the next topic, click the << button to move to the previous topic.

How to Get Help

Navigation Pane

The navigation pane consists of **Contents** tab, **Index** tab and **Search** tab.

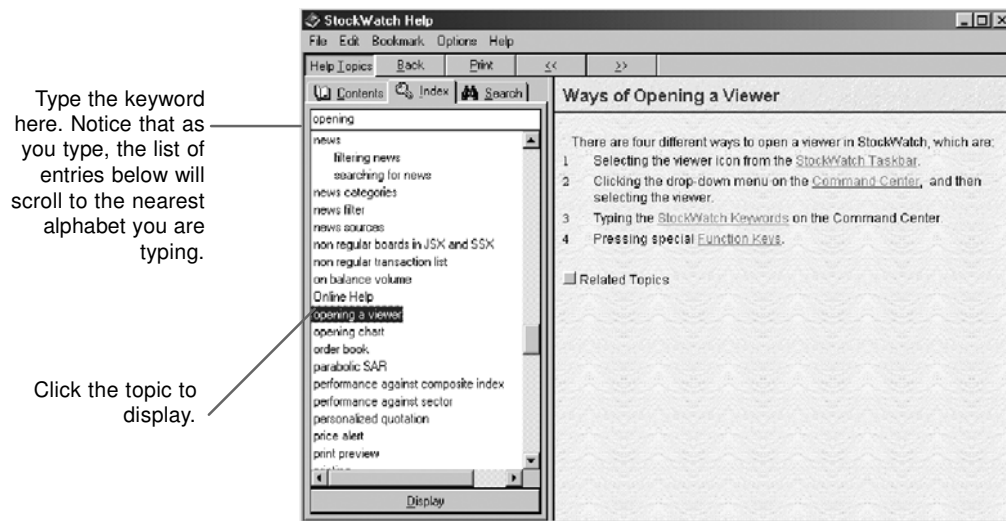
Contents Tab

The **Contents** tab, as the name implies, lists all topics available in **MarketInfo Help**, and categorizes them into books. Each book contains specific belonging to the same category. To open/close the books (hence displaying/concealing the topics), double-click the book or click the + sign to open and - sign to close it.

Index Tab

The Index tab lists the keywords of all topics available, and sorts them in alphabetical order. To view the topic you want, you can either:

1. Type the keyword and press **<Enter>**.
2. Select it from the list (either by clicking it or by highlighting it and clicking **Display** button underneath).



How to Get Help

Search Tab

With this tab, you can do a full-text search of all the contents of MarketInfo Help. Unlike the **Index** tab where the search is limited to the index-entries or keywords only, here all the contents can be searched.

When you first open the **Search** tab, you will be prompted to determine the size of the search database (minimum, maximum, or customized).

Topic pane

Help topics appear on the right side of the **Navigation Pane**. All topics in MarketInfo Help are displayed in this window. If the topic extends beyond the window, scroll bars allow you to see the rest of the topic. A detailed explanation regarding this section can be found below.

Elements of Help Menu

1. File

This is used for opening and closing the help file. You can also print the topic by selecting the **Print Topic** menu.

2. Edit

You can copy current topic to other program such as MS Word, Notepad, etc. To copy current topic, click **Edit** menu and select **Copy**. Move to other program, click **Edit** and select **Paste**.

Annotate, this option provides you with the ability to make your own additional notes/information to current topic. This annotation will be displayed as a paper clip in the topic. Clicking this paper clip will display your annotation that you have made.

3. Bookmark

With **Bookmark**, you can make a list of your own favorite topics. Click **Bookmark** and select **Define**, type your bookmark name in the provided box. You can easily return to this bookmarked topic only by selecting the name.

4. Options

This button will be covered in detail after this.

Options Menu

The available functions from the Options menu are:

1. Keep Help on Top

You can choose whether you want the help window to always appear on top of other windows or not.

2. Display History Window

All topics that you open will be displayed as a list in a small window. Double-click the topic to open one of the topics.

3. Font

You can select the font size from this menu (small, normal, or large).

4. Use System Colors

Tick this option if you want to use the standard system colors.

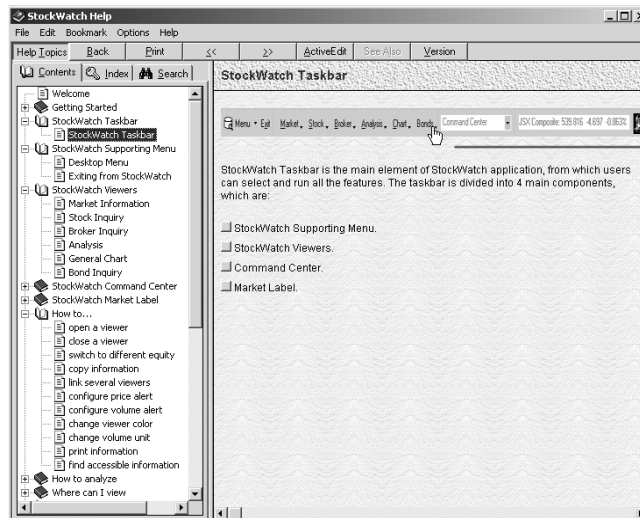
Navigating MarketInfo Help

All topics in **MarketInfo Help** are inter-connected. Each topic is usually presented with a link to another topic to ensure that any additional information that might be necessary is readily available.

Links

Throughout the topic display, you will find links that will help you to obtain additional information. There are two types of links, those that will take you to another topic-display window, and those that will display the additional information on the current topic-display window. Both links are presented in either text or graphic mode.

On the text mode, a link that opens another window is presented in green font with single underline, while those that do not open another window are presented in green font with a dotted underline. On the graphic mode, there is no difference between both links. You cannot see the apparent signs of a link in the graphics until you move your mouse across the graphics to see if there a link is available (the mouse icon turns into the pointing hand icon).



The pointing hand denotes a link.

Browsing Sequence

You can consider the browsing sequence as an introductory tour on MarketInfo viewers. Use the browse buttons >> on the toolbar to follow the path in sequence. The starting point for the browsing sequence is on the Welcome page of the Help file.

How to Get
Help

GLOSSARY

active viewer

The viewer that you are currently using, or that is currently selected. Only one viewer can be active at a time. The active viewer has a different title bar color to differentiate it from other viewers.

alert parameter

The personal assistant that will notify you when the movement of an individual stock has exceeded the limit you set. The alerting function can be based on price and/or volume.

analysis

Tools that enable you to analyze stock, broker and warrant transaction from a different perspective.
see also **viewer**

bond inquiry

A collection of viewers displaying comprehensive information of bonds on Indonesia Stock exchange.

broker inquiry

A collection of viewers that displays broker-related information.
see also **viewer**

broker x-nalyzer

A viewer that displays a complete broker-wise trading information for a customizable period.

command center

A section in MarketInfo Taskbar that provides shortcuts to open a viewer.

company info

Viewer with in-depth information on a company listed on IDX stock exchanges.

default desktop

Desktop configuration that has been pre-configured by MarketInfo.

desktop

A collection of all viewers currently open, including their position in your monitor.

drag

Moving an item by selecting it, then pressing and holding down the mouse button while moving the mouse.

function key

Function <**F2-F11**> keys on keyboard that you can use to call viewers.

general chart

A collection of viewers providing information in form of charts.

main menu

A section in MarketInfo Taskbar that manages the whole MarketInfo operations (e.g. printing, help, desktop configuration).

market information

A collection of viewers that displays the information on the overall Indonesia Stock Exchange market condition.

see also **viewer**

market label

The area in the MarketInfo Taskbar that displays stock quotations and USD exchange rate against IDR.

print content

Prints the data inside the viewer. MarketInfo will arrange the data appearance and automatically do the page settings.

print desktop

Prints the snapshot of your desktop. Everything you see in your monitor will be printed exactly as it is.

print form

Prints the snapshot of an individual viewer exactly as shown in your monitor.

print preview

Shows you the outcome of your print command, so you can do a final checking before you send it to the printer.

receiver

A device that captures the financial data that MarketInfo uses.

share x-nalyzer

A viewer that displays complete stock-wise trading information for a customizable period.

startup desktop

A desktop setting that will be loaded automatically everytime the user starts MarketInfo.

stock inquiry

A collection of viewers that displays stock-related information.

see also **viewer**

MarketInfo taskbar

The main “control panel” that houses all icons necessary in operating MarketInfo.

ticker

A viewer providing real-time information on indices in IDX, major indices, news and Rupiah exchange value against US Dollar displayed as crawling text.

technical analysis

Methods of analyzing a stock’s historical prices to determine its probable future prices.

viewer

A window that displays all information and technical analysis charts in MarketInfo.

window

A rectangular area in your screen where you view an application or document. You can open, close, move, and change the size of most windows. You can also open several windows at a time.

Windows²

An operating system in which MarketInfo runs.

² **Windows** is a registered trademark of **Microsoft Corporation**.

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